FIGURE 1

ER_alpha_LBD	307	ALSETADOMVSAHLDAEPPILYSEYDPTRPFSEASMMGLETNLADRELVHMINWAKRVPG
ER_beta_LBD	308	LDAESPEOLVLTLLEAEPPHVLISR-PSAPFTEASMMMSLTKLADKELVHMISWAKKIPG
ER_alpha_LBD	367	EVELSLEDOVHILLECAMLEILMIGLVWRSMEHPVKLLFAPNILLDRNOGKCVEGMVEIED
ER_beta_LBD	367	EVELSLEDOVRILLESCUMEVLMMGLMWRSIDHPGKLIFAPDUVLDRDEGKCVEGILEIED
ER_alpha_LBD	427	MLLATSSRERMMNLOGEEFVOLKSIIILINSGVYTFLSSTLKSLEEKDHIHRVLDKINDTU
ER_beta_LBD	427	MLLATTSRERELKLOHKEYLOVKAMILLINSSMYPLVTAHODADSSRKLAH-LLINAVUDAL
ER_alpha_LBD	487	IHLMAKAGLTLQQQHQRLAQLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLLEMLDA
ER_beta_LBD	486	VWVIAKSGISSQQQSMRLANLLMLLSHVRHASNKGMEHLLNMKCKNVVPVYDLLLEMLNA
ER_alpha_LBD	547	HRI
ER_beta_LBD	546	HVL

Unit Cell:	53.486	85.207	107.065	90.00	90.00	90.00
	5010101					

Space Group: P212121

	atom	Res.	x	У	z		
ATOM	type 1 N	LEU A 311 LEU A 311	0.971 1.453	-5.129 -4.204	37.101 36.024	1.00 55.91	N
MOTA MOTA	2 CA 3 C	LEU A 311	0.411	-3.151	35.699	1.00 52.91 1.00 52.76	C
ATOM ATOM	4 O 5 CB	LEU A 311 LEU A 311	0.662 1.933	-2.238 -4.990	34.911 34.806	1.00 51.43 1.00 50.10	0 C
MOTA	6 CG	LEU A 311	3.007	-6.031	35.117	1.00 51.90	С
ATOM ATOM		LEU A 311 LEU A 311	3.070 4.361	-7.107 -5.396	34.063 35.366	1.00 55.02 1.00 50.07	C C
MOTA	9 N	SER A 312	-0.779	~3.304	36.277	1.00 48.17	N
MOTA MOTA	10 CA 11 C	SER A 312 SER A 312	-1.856 -1.257	-2.323 -1.024	36.154 36.704	1.00 45.76 1.00 42.54	C
ATOM	12 0	SER A 312	-0.515	-1.023	37.696	1.00 40.55	0
MOTA MOTA	13 CB 14 OG	SER A 312 SER A 312	-3.096 -3.636	-2.816 -1.866	36.876 37.778	1.00 42.53 1.00 44.17	С 0
MOTA	15 N 16 CA	PRO A 313 PRO A 313	-1.543 -0.943	0.085 1.365	36.037 36.364	1.00 39.31 1.00 37.98	N C
ATOM ATOM	16 CA 17 C	PRO A 313	-0.958	1.765	37.812	1.00 37.36	C
MOTA MOTA	18 O 19 CB	PRO A 313 PRO A 313	0.140 -1.582	1.992 2.348	38.375 35.397	1.00 38.34 1.00 35.68	0 C
MOTA	20 CG	PRO A 313	-2.035	1.509	34.261	1.00 40.46	C
ATOM ATOM	21 CD 22 N	PRO A 313 GLU A 314	-2.427 -2.111	0.172 1.866	34.851 38.474	1.00 37.34 1.00 30.67	C N
MOTA	23 CA	GLU A 314	-2.089	2.235	39.882	1.00 34.57	С
ATOM ATOM	24 C 25 O	GLU A 314 GLU A 314	-1.249 -0.591	1.270 1.744	40.711 41.639	1.00 30.99 1.00 32.77	C 0
MOTA	26 CB	GLU A 314 GLU A 314	-3.517 -3.503	2.267 2.626	40.462 41.948	1.00 38.24 1.00 44.67	c c
ATOM ATOM	27 CG 28 CD	GLU A 314 GLU A 314	-4.887	3.065	42.419	1.00 50.70	C
ATOM ATOM		GLU A 314 GLU A 314	-5.884 -4.907	2.794 3.693	41.711 43.496	1.00 48.91 1.00 54.40	0
MOTA	31 N	GLN A 315	-1.337	-0.035	40.456	1.00 31.00	N
ATOM ATOM	32 CA 33 C	GLN A 315 GLN A 315	-0.578 0.937	-0.989 -0.913	41.250 41.010	1.00 37.11 1.00 36.55	C
MOTA	34 O	GLN A 315	1.708 -1.014	-0.982 -2.441	41.951 40.956	1.00 33.12 1.00 41.80	0 C
ATOM ATOM	35 CB 36 CG	GLN A 315 GLN A 315	-2.386	-2.674	41.588	1.00 51.16	C
ATOM ATOM	37 CD 38 OE1	GLN A 315 . GLN A 315	-3.004 -4.222	-4.012 -4.172	41.339 41.485	1.00 56.60 1.00 60.96	0
MOTA	39 NE2	GLN A 315	-2.210	-5.021	40.973	1.00 61.33	N
MOTA MOTA	40 N 41 CA	LEU A 316 LEU A 316	1.294 2.730	-0.818 -0.721	39.727 39.378	1.00 34.75 1.00 32.58	С И
ATOM	42 C	LEU A 316	3.327	0.491	40.058	1.00 29.66 1.00 29.13	С
ATOM ATOM	43 O 44 CB	LEU A 316 LEU A 316	$\frac{4.414}{2.863}$	0.401 -0.742	40.654 37.857	1.00 29.13	0 C
ATOM ATOM	45 CG 46 CD1	LEU A 316 LEU A 316	4.273 5.272	-0.604 -1.606	37.276 37.841	1.00 36.22 1.00 36.76	C C
MOTA	47 CD2	LEU A 316	4.173	-0.851	35.774	1.00 32.29	C
ATOM ATOM	48 N 49 CA	VAL A 317 VAL A 317	2.642 3.131	1.640 2.817	40.063	1.00 29.47 1.00 26.29	C C
ATOM	50 C 51 O	VAL A 317 VAL A 317	3.263 4.239	2.588 2.996	42.253 42.865	1.00 33.46 1.00 28.60	C 0
MOTA MOTA	52 CB	VAL A 317	2.278	4.055	40.488	1.00 27.01	C
ATOM ATOM		VAL A 317 VAL A 317	2.703 2.278	5.285 4.300	41.242 38.964	1.00 30.45 1.00 25.96	C
ATOM	55 N	LEU A 318	2.236	1.951	42.850	1.00 30.90	N
ATOM ATOM	56 CA 57 C	LEU A 318 LEU A 318	2.340 3.532	1.635 0.696	44.267 44.534	1.00 32.73 1.00 25.10	C
ATOM	58 O	LEU A 318	4.120	0.933	45.581	1.00 28.81	0
ATOM ATOM	59 CB 60 CG	LEU A 318 LEU A 318	1.051 0.983	1.062 0.754	44.813 46.309	1.00 33.80 1.00 40.30	C C
ATOM		L LEU A 318	1.574 -0.488	1.849 0.535	47.191 46.684	1.00 35.41 1.00 40.42	C
ATOM ATOM	63 N	2 LEU A 318 THR A 319	3.845	-0.268	43.727	1.00 26.05	N
MOTA MOTA	64 CA 65 C	THR A 319 THR A 319	4.970 6.274	-1.153 -0.340	43.868 43.734	1.00 33.78 1.00 32.10	C
ATOM	66 O	THR A 319	7.212	-0.552	44.485	1.00 26.69	0
ATOM ATOM	67 CB 68 OG1	THR A 319 L THR A 319	5.011 3.894	-2.308 -3.206	42.863 43.075	1.00 32.57 1.00 41.02	C 0
ATOM		2 THR A 319	6,273 6,295	-3,163	43.004	1.00 34.97 1.00 33.55	C
ATOM	, O IV	LEU A 320	0.293	0.635	42.823	1.00 33.33	IA

ATOM	71	CA	LEU A	320	7.508	1.473	42.689	1.00 27.98
MOTA	72	С	LEU A	320	7.676	2.335	43.912	1.00 28.44 1.00 24.05
ATOM ATOM	73 74	O CB	LEU A LEU A		8.787 7.433	2.559 2.242	44.387 41.372	1.00 24.05
MOTA	75	CG	LEU A		7.423	1.436	40.083	1.00 26.50
MOTA	76 77		LEU A		7.291 8.656	2.422 0.587	38.915 39.837	1.00 27.39 1.00 30.76
ATOM ATOM	7 <i>7</i>	N N	LEU A		6.582	2.879	44.489	1.00 30.70
MOTA	79	CA	LEU A	321	6.724	3.682	45.701	1.00 28.02
ATOM ATOM	80 81	C 0	LEU A		7.271 8.210	2.823 3.259	46.840 47.546	1.00 28.69 1.00 27.56
ATOM	82	CB	LEU A		5.360	4.288	46.062	1.00 28.80
MOTA	83	CG	LEU A		5.318	5.192	47.292	1.00 37.72
MOTA MOTA	8 4 85		LEU A		6.011 3.853	6.518 5.423	47.054 47.666	1.00 38.86 1.00 39.97
ATOM	86	N	GLU A	322	6.792	1.595	47.016	1.00 31.64
ATOM	87	CA	GLU A GLU A		7.292 8.744	0.747 0.325	48.104 47.877	1.00 30.94 1.00 31.86
ATOM ATOM	88 89	С 0	GLU A		9.429	0.024	48.861	1.00 30.98
ATOM	90	CB	GLU A		6.504	-0.561	48.235	1.00 34.36
MOTA MOTA	91 92	CG CD	GLU A GLU A		5.000 4.194	-0.329 -1.612	48.246 48.152	1.00 44.87 1.00 50.59
ATOM	93		GLU A	322	4.633	-2.606	47.524	1.00 55.23
ATOM	94	OE2	GLU A		3.085 9.186	-1.635 0.251	48.719 46.621	1.00 53.11 1.00 30.12
ATOM ATOM	95 96	N CA	ALA A		10.557	-0.167	46.332	1.00 30.12
MOTA	97	С	ALA A	323	11.543	0.966	46.514	1.00 27.90
MOTA MOTA	98 99	O CB	ALA A ALA A		12.745 10.674	0.641 -0.686	46.392 44.890	1.00 26.52 1.00 30.03
MOTA	100	N	GLU A	324	11.124	2.190	46.841	1.00 25.78
MOTA	101 102	CA	GLU A		12.108 13.191	3.269 2.929	46.888 47.911	1.00 25.49 1.00 28.63
ATOM ATOM	103	C O	GLU A		12.860	2.474	49.025	1.00 30.65
ATOM	104	CB	GLU A		11.561	4.658	47.223	1.00 23.53
ATOM ATOM	105 106	CG CD	GLU A GLU A		10.923 12.073	5.411 5.984	46.046 45.192	1.00 26.29 1.00 27.30
MOTA	107	OE1	GLU A	324	12.478	5.247	44.305	1.00 26.25
MOTA	108 109	OE2 N	GLU A PRO A		12.592 14.456	7.083 3.133	45.480 47.590	1.00 30.19 1.00 25.18
ATOM ATOM	110	CA	PRO A		15.520	2.894	48.547	1.00 26.69
MOTA	111	C	PRO A		15.429	3.769	49.775 49.777	1.00 29.75 1.00 32.58
ATOM ATOM	112 113	O CB	PRO A		14.908 16.818	4.886 3.256	47.789	1.00 32.38
MOTA	114	CG	PRO A	325	16.365	4.075	46.636	1.00 32.28
MOTA MOTA	115 116	CD N	PRO A		14.939 16.058	3.733 3.331	46.305 50.879	1.00 22.13 1.00 33.46
ATOM	117	CA	PRO A	326	16.116	4.073	52.109	1.00 36.27
MOTA	118	C	PRO A		17.047 17.971	5.260 5.196	51.951 51.130	1.00 36.99 1.00 36.32
ATOM ATOM	119 120	O CB	PRO A		16.739	3.076	53.107	1.00 30.32
MOTA	121	CG	PRO A		17.626	2.236	52.249	1.00 39.51
MOTA MOTA	122 123	N N	PRO A HIS A		16.851 16.899	2.079 6.282	50.939 52.788	1.00 36.10 1.00 38.59
ATOM	124	CA	HIS A	327	17.847	7.406	52.678	1.00 40.75
MOTA MOTA	125 126	C	HIS A		19.230 19.395	6.940 6.138	53.079 54.018	1.00 36.06 1.00 32.53
ATOM	127	CB	HIS A		17.300	8.555	53.528	1.00 45.73
ATOM	128	CG	HIS A		15.987 14.957	9.043 8.186	52.982 52.665	1.00 53.44 1.00 59.65
MOTA MOTA	129 130		HIS A		15.530	10.278	52.688	1.00 56.60
MOTA	131		HIS A		13.920	8.860	52,202	1.00 59.43
ATOM ATOM	132 133	NE2 N	HIS A		14.244 20.282	10.137 7.369	52.209 52.404	1.00 60.32 1.00 32.13
ATOM	134	CA	VAL A		21.657	6.980	52.751	1.00 36.60
ATOM	135	C	VAL A VAL A		22.288 22.291	8.070 9.188	53.608 53.071	1.00 43.74 1.00 51.71
ATOM ATOM	136 137	O CB	VAL A		22.619	6.823	51.549	1.00 35.11
MOTA	138		VAL A	328	24.068	6.722 5.603	52.020 50.768	1.00 34.13 1.00 31.62
ATOM ATOM	139 140	N CG2	VAL A LEU A		22.189 22.788	7.715	54.770	1.00 31.02
MOTA	141	CA	LEU A	329	23.338	8.705	55.672	1.00 49.06
ATOM ATOM	142 143	C O	LEU A LEU A		24.833 25.601	8.942 8.211	55.562 56.188	1.00 47.49 1.00 53.01
ATOM	144	CB	LEU A	329	23.008	8.250	57.121	1.00 51.57
MOTA MOTA	145 146	CG CD1	LEU A		21.485 21.206	7.974 7.139	57.281 58.539	1.00 55.29 1.00 56.60
MOŢA	147		LEU A		20.781	9.337	57.445	1.00 56.44

MOTA	148 N ILE A 330	25.227	9.937	54.768	1.00 47.68
MOTA	149 CA ILE A 330	26.650	10.243	54.682	1.00 43.16
ATOM ATOM	150 C ILE A 330 151 O ILE A 330	26.808 25.993	11.652 12.531	55.247 54.992	1.00 44.09 1.00 39.19
ATOM	152 CB ILE A 330	27.268	10.097	53.297	1.00 43.80
MOTA	153 CG1 ILE A 330	28.801 26.714	10.199 11.120	53.394 52.329	1.00 35.76 1.00 37.55
ATOM ATOM	154 CG2 ILE A 330 155 CD1 ILE A 330	29.485	9.364	52.319	1.00 37.90
MOTA	156 N SER A 331	27.880	11.847	56.030	1.00 46.29 1.00 49.87
ATOM ATOM	157 CA SER A 331 158 C SER A 331	28.030 29.267	13.202 13.807	56.563 55.914	1.00 49.87
ATOM	159 O SER A 331	30.160	13.053	55.533	1.00 49.80
MOTA	160 CB SER A 331 161 OG SER A 331	28.213 26.912	13.243 13.454	58.076 58.596	1.00 48.11 1.00 52.06
MOTA MOTA	162 N ARG A 332	29.295	15.124	55.816	1.00 51.02
ATOM	163 CA ARG A 332 164 C ARG A 332	30.453 31.719	15.793 15.467	55.247 56.048	1.00 47.44 1.00 46.53
MOTA MOTA	164 C ARG A 332 165 O ARG A 332	31.584	15.127	57.211	1.00 44.60
MOTA	166 CB ARG A 332	30.312	17.307 18.071	55.395 54.130	1.00 49.11 1.00 47.15
MOTA MOTA	167 CG ARG A 332 168 CD ARG A 332	30.002 29.914	19.560	54.480	1.00 48.27
ATOM	169 NE ARG A 332	29.062	20.225	53.493 52.531	1.00 45.94 1.00 44.52
ATOM ATOM	170 CZ ARG A 332 171 NH1 ARG A 332	29.569 28.715	20.997 21.538	51.674	1.00 43.36
MOTA	172 NH2 ARG A 332	30.873	21.223	52.439	1.00 41.93 1.00 46.60
ATOM ATOM	173 N PRO A 333 174 CA PRO A 333	32.861 34.11 4	15.669 15.452	55.438 56.141	1.00 50.04
ATOM	175 C PRO A 333	34.378	16.619	57.093	1.00 50.91
ATOM	176 O PRO A 333 177 CB PRO A 333	33.758 35.192	17.679 15.402	56.986 55.062	1.00 46.07 1.00 51.24
ATOM ATOM	178 CG PRO A 333	34.581	16.017	53.857	1.00 51.07
ATOM	179 CD PRO A 333 180 N SER A 334	33.091 35.273	16.096 16.359	54.045 58.036	1.00 48.89 1.00 54.26
MOTA MOTA	181 CA SER A 334	35.698	17.405	58.971	1.00 59.74
ATOM	182 C SER A 334 183 O SER A 334	36.973 37.913	17.950 17.172	58.320 58.137	1.00 58.71 1.00 61.30
ATOM ATOM	183 O SER A 334 184 CB SER A 334	35.976	16.884	60.365	1.00 57.11
MOTA	185 OG SER A 334 186 N ALA A 335	35.815 36.927	17.982 19.173	61.246 57.850	1.00 65.66 1.00 57.04
MOTA MOTA	187 CA ALA A 335	38.032	19.809	57.136	1.00 57.50
ATOM	188 C ALA A 335 189 O ALA A 335	37.420 36.664	20.176 19.356	55.781 55.256	1.00 56.09 1.00 56.58
ATOM ATOM	190 CB ALA A 335	39.255	18.963	56.851	1.00 55.12
ATOM	191 N PRO A 336 192 CA PRO A 336	37.677 37.107	21.372 21.770	55.299 54.016	1.00 55.44 1.00 47.77
ATOM ATOM	193 C PRO A 336	37.465	20.746	52.949	1.00 43.81
MOTA	194 O PRO A 336 195 CB PRO A 336	38.438 37.643	19.982 23.167	53.033 53.817	1.00 35.36 1.00 50.74
ATOM ATOM	196 CG PRO A 336	38.306	23.605	55.069	1.00 51.78
MOTA	197 CD PRO A 336 198 N PHE A 337	38.561 36.688	22.389 20.667	55.913 51.872	1.00 52.02 1.00 38.45
MOTA MOTA	199 CA PHE A 337	36.930	19.690	50.829	1.00 38.41
MOTA MOTA	200 C PHE A 337 201 O PHE A 337	38.188 38.535	19.870 21.009	50.003 49.768	1.00 36.62 1.00 37.09
MOTA	202 CB PHE A 337	35.76 7	19.748	49.808	1.00 34.49
MOTA MOTA	203 CG PHE A 337 204 CD1 PHE A 337	34.594 34.797	18.891 17.520	50.176 50.284	1.00 29.83 1.00 26.36
MOTA	205 CD2 PHE A 337	33.337	19.405	50.381	1.00 33.91
ATOM	206 CE1 PHE A 337 207 CE2 PHE A 337	33.783 32.304	16.653 18.537	50.608 50.729	1.00 30.38 1.00 33.76
ATOM ATOM	208 CZ PHE A 337	32.524	17.176	50.818	1.00 30.40
MOTA	209 N THR A 338 210 CA THR A 338	38.822 39.931	18.764 18.850	49.605 48.667	1.00 35.69 1.00 34.49
ATOM ATOM	211 C THR A 338	39.521	18.042	47.428	1.00 36.55
ATOM ATOM	212 O THR A 338 213 CB THR A 338	38.489 41.227	17.354 18.242	47.471 49.174	1.00 33.13 1.00 37.42
ATOM	214 OG1 THR A 338	40.992	16.847	49.378	1.00 34.86 1.00 39.82
MOTA MOTA	215 CG2 THR A 338 216 N GLU A 339	41.695 40.299	18.905 18.060	50.466 46.356	1.00 38.20
MOTA	217 CA GLU A 339	39.939	17.245	45.182	1.00 31.68 1.00 34.71
MOTA MOTA	218 C GLU A 339 219 O GLU A 339	39.804 38.782	15.784 15.149	45.602 45.344	1.00 34.71
ATOM	220 CB GLU A 339	40.948	17.416	44.063	1.00 33.81 1.00 34.94
MOTA MOTA	221 CG GLU A 339 222 CD GLU A 339	40.500 41.430	16.717 17.024	42.776 41.627	1.00 35.71
MOTA	223 OE1 GLU A 339	42.466	16.332	41.550	1.00 40.73
MOTA	224 OE2 GLU A 339	41.125	17.947	40.853	1.00 39:43

MOTA	225	N	ALA A 340	40.740	15.237	46.384	1.00 30.70
MOTA	226	CA	ALA A 340	40.665	13.863	46.831	1.00 27.77
MOTA	227	C	ALA A 340	39.502	13.519	47.748	1.00 25.62
MOTA	228	O	ALA A 340	38.927	12.448	47.552	1.00 27.51
MOTA	229	CB	ALA A 340	41.931	13.448	47.601	1.00 29.10
MOTA	230	N	SER A 341	39.226	14.388	48.720	1.00 26.84
ATOM	231	CA	SER A 341	38.196	14.096	49.708	1.00 29.79
ATOM	232	C	SER A 341	36.803	14.291	49.100	1.00 28.43
ATOM ATOM	233 234	O CB	SER A 341 SER A 341	35.920 38.420 38.028	13.514 14.894 16.252	49.464 51.001 50.905	1.00 26.98 1.00 26.89 1.00 30.59
MOTA MOTA MOTA	235 236 237	OG N CA	SER A 341 MET A 342 MET A 342	36.644 35.292	15.260 15.347	48.188 47.551	1.00 30.39 1.00 26.89 1.00 23.72
MOTA	238	C	MET A 342	35.145	14.123	46.629	1.00 28.77
MOTA	239	O	MET A 342	34.075	13.509	46.708	1.00 26.04
ATOM ATOM	240 241	CB CG	MET A 342 MET A 342	35.126 33.749	16.618	46.749	1.00 25.36 1.00 28.37
MOTA	242	SD	MET A 342	33.464	18.319	45.306	1.00 28.56
ATOM	243	CE	MET A 342	33.156	19.429	46.631	1.00 33.24
ATOM	244	N	MET A 343	36.180	13.703	45.885	1.00 25.81
ATOM	245	CA	MET A 343	36.015	12.491	45.066	1.00 25.62
ATOM	246	C	MET A 343	35.803	11.283	45.963	1.00 28.46
MOTA	247	O	MET A 343	34.998	10.391	45.669	1.00 24.46
MOTA	248	CB	MET A 343	37.130	12.226	44.064	1.00 18.08
MOTA MOTA	249 250	CG SD	MET A 343 MET A 343	37.256 35.660	13.268	42.943 41.976 41.690	1.00 22.77 1.00 24.43 1.00 24.64
ATOM ATOM ATOM	251 252 253	CE N CA	MET A 343 MET A 344 MET A 344	35.546 36.401 36.150	11.509 11.204 10.057	47.163 48.034	1.00 23.55 1.00 21.04
ATOM	25 4	C	MET A 344	34.727	10.018	48.589	1.00 22.36
ATOM	255	O	MET A 344	34.109	8.962	48.755	1.00 22.72
ATOM ATOM	256 257	CB CG	MET A 344 MET A 344	37.106 36.782	10.117	49.236	1.00 28.70 1.00 39.38
ATOM	258	SD	MET A 344	38.017	9.192	51.632	1.00 46.12
ATOM	259	CE	MET A 344	39.321	8.239	50.809	1.00 47.00
ATOM	260	N	SER A 345	34.189	11.164	48.919	1.00 22.84
MOTA	261	CA	SER A 345	32.839	11.285	49.427	1.00 22.70
MOTA	262	C	SER A 345	31.804	10.862	48.332	1.00 21.50
ATOM ATOM	263 264	O CB	SER A 345 SER A 345	30.891 32.520	10.084	48.632 49.846	1.00 21.09 1.00 26.69 1.00 26.93
MOTA	265	OG	SER A 345	33.175	12.967	51.105	1.00 26.93
MOTA	266	N	LEU A 346	32.043	11.312	47.136	1.00 20.73
MOTA	267	CA	LEU A 346	31.063	10.950	46.059	1.00 21.78
ATOM	268	c	LEU A 346	31.140	9.484	45.733	1.00 19.80
ATOM	269	o	LEU A 346	30.092	8.886	45.524	1.00 20.97
MOTA MOTA	270 271	CB CG	LEU A 346 LEU A 346	31.316 31.072	11.808	44.825	1.00 20.76 1.00 24.44 1.00 27.57
ATOM	272		LEU A 346	31.454	14.028	43.664	1.00 27.57
ATOM	273		LEU A 346	29.603	13.613	45.260	1.00 24.42
ATOM	274		THR A 347	32.338	8.877	45.732	1.00 18.51
MOTA	275	CA	THR A 347	32.414	7.450	45.373	1.00 21.98
MOTA	276	C	THR A 347	31.983	6.573	46.524	1.00 24.51
ATOM	277	O	THR A 347	31.368	5.529	46.275	1.00 23.87
ATOM	278	CB	THR A 347	33.796	7.089	44.809	1.00 25.39
ATOM	279	OG1	THR A 347	34.738	7.391	45.842	1.00 21.99
ATOM ATOM	280 281	CG2		34.123 32.185	7.889 6.947	43.565 47.799	1.00 25.92 1.00 24.27
ATOM	282	CA	LYS A 348	31.650	6.172	48.913	1.00 22.75
ATOM	283	C	LYS A 348	30.115	6.236	48.952	
ATOM	284	O	LYS A 348	29.438	5.260	49.278	1.00 20.54
ATOM	285	CB	LYS A 348	32.116	6.807	50.258	1.00 30.65
ATOM	286	CG	LYS A 348	31.525	6.139	51.484	1.00 38.85
ATOM	287	CD	LYS A 348	32.566	5.870	52.566	1.00 51.23
ATOM	288		LYS A 348	32.062	4.767	53.515	1.00 53.45
ATOM ATOM	289 290 291	NZ N CA	LYS A 348 LEU A 349 LEU A 349	33.152 29.568 28.098	4.400 7.436 7.606	54.471 48.668 48.692	1.00 61.29 1.00 21.35 1.00 20.62
ATOM ATOM ATOM	292 293	CO	LEU A 349 LEU A 349	27.531 26.554	6.728 6.036	47.554 47.757	1.00 20.65 1.00 18.64
ATOM ATOM	294 295	CB CG	LEU A 349 LEU A 349	27.658 26.159	9.049	48.459 48.202	1.00 20.47 1.00 24.04
ATOM	296	CD1		25.303	8.888	49.386	1.00 23.46
ATOM	297	CD2		25.830	10.812	48.019	1.00 22.26
ATOM	298	N		28.198	6.787	46.386	1.00 19.00
ATOM	299	CA	ALA A 350	27.723	5.962	45.252	1.00 21.07
ATOM	300	C	ALA A 350	27.733	4.475	45.613	1.00 19.81
ATOM	301	0	ALA A 350	26.784	3.733	45.385	1.00 18.86

					00 550	c 160	43 000	1.00 20.94
MOTA MOTA	302 303	CB N	ALA A 3 ASP A 3		28.558 28.807	6.162 4.047	43.988 46.335	1.00 23.60
ATOM	304		ASP A 3		28.879	2.611	46.709	1.00 23.15
ATOM	305	С	ASP A 3	351	27.698	2.216	47.569	1.00 21.31
MOTA	306		ASP A		26.994	1.228	47.345	1.00 22.54 1.00 24.66
ATOM	307	CB	ASP A		30.222 30.369	2.317	47.405 47.750	1.00 24.00
MOTA MOTA	308 309	CG OD1	ASP A 3		30.751	0.016	46.881	1.00 22.60
ATOM	310		ASP A		30.083	0.368	48.854	1.00 27.97
MOTA	311	N	LYS A	352	27.319	3.080	48.505 49.429	1.00 18.89 1.00 25.83
MOTA	312 313	CA C	LYS A		26.231 24.908	2.812 2.730	48.660	1.00 23.96
ATOM ATOM	314	0	LYS A		24.066	1.863	48.897	1.00 23.98
ATOM	315	CB	LYS A		26.165	3.884	50.514	1.00 29.24
MOTA	316	CG	LYS A		27.383 27.337	3.864 5.094	51.460 52.366	1.00 37.75 1.00 41.30
ATOM ATOM	317 318	CD CE	LYS A :		28.428	5.141	53.406	1.00 47.71
ATOM	319	NZ	LYS A	352	28.383	6.407	54.191	1.00 57.64
MOTA	320	N	GLU A		24.728 23.473	3.733 3.732	47.785 47.012	1.00 18.65 1.00 19.52
ATOM ATOM	321 322	CA C	GLU A		23.422	2.552	46.054	1.00 19.13
ATOM	323	Õ	GLU A	353	22.313	2.097	45.724	1.00 21.39
ATOM	324	CB	GLU A		23.330	5.038	46.198 47.159	1.00 22.06 1.00 21.74
ATOM	325 326	CG CD	GLU A GLU A		23.214 22.893	6.231 7.495	46.368	1.00 24.03
ATOM ATOM	327		GLU A		21.699	7.700	46.076	1.00 23.53
MOTA	328	OE2			23.754	8.285	46.001	1.00 23.99 1.00 16.94
ATOM	329	N	LEU A		24.577 24.568	2.155 1.032	45.504 44.534	1.00 10.94
ATOM ATOM	330 331	CA C	LEU A			-0.261	45.217	1.00 20.96
ATOM	332	ō	LEU A	354	23.455	-1.036	44.517	1.00 21.13
MOTA	333	CB	LEU A	354	25.922 26.275	0.856 1.921	43.824 42.787	1.00 19.93 1.00 17.91
MOTA MOTA	334 335	CG CD1	LEU A LEU A	354 354	27.778	1.969	42.528	1.00 18.30
ATOM	336	CD2		354	25.567	1.655	41.478	1.00 22.25
ATOM	337	N	VAL A		24.454 23.931	-0.450 -1.679	46.503 47.168	1.00 24.62 1.00 24.78
ATOM ATOM	338 339	CA C	VAL A VAL A		22.415	-1.611	47.189	1.00 22.47
ATOM	340	ŏ	VAL A	355	21.745	-2.574	46.806	1.00 24.58
ATOM	341	CB	VAL A		24.375 23.758	-1.768 -2.998	48.649 49.293	1.00 27.79 1.00 28.19
ATOM ATOM	342 343	CG1 CG2			25.902	-1.767	48.678	1.00 29.07
MOTA	344	N	HIS A		21.817	-0.473	47.556	1.00 22.33
MOTA	345	CA	HIS A		20.366	-0.318	47.555 46.156	1.00 23.50 1.00 25.98
ATOM	346 347	С 0	HIS A		19.747 18.603	-0.390 -0.823	45.985	1.00 20.85
ATOM ATOM	348	CB	HIS A		19.973	1.059	48.154	1.00 25.64
ATOM	349	CG	HIS A		20.417	1.150	49.594 50.404	1.00 30.50 1.00 36.00
ATOM ATOM	350 351	ND1	HIS A	356 356	20.380 20.901	0.032 2.131	50.348	1.00 33.71
ATOM	352	CE1	HIS A	356	20.836	0.334	51.603	1.00 38.33
MOTA	353		HIS A		21.149 20.475	1.608 0.096	51.614 45.141	1.00 35.34 1.00 22.11
MOTA MOTA	354 355	N CA	MET A MET A		19.922	0.085	43.760	1.00 23.05
ATOM	356	C	MET A		19.671	-1.353	43.318	1.00 22.29
MOTA	357	0	MET A		18.676 20.869	-1.604 0.761	42.647 42.761	1.00 22.13 1.00 20.67
MOTA MOTA	358 359	CB CG	MET A		20.200	1.079	41.381	1.00 17.48
ATOM	360	SD	MET A	357	21.487	1.628	40.215	1.00 18.70
ATOM	361	CE	MET A		21.975 20.563	3.188 -2.306	40.968 43.693	1.00 21.32 1.00 19.95
ATOM ATOM	362 363	N CA	ILE A		20.303	-3.705	43.318	1.00 23.22
ATOM	364	C	ILE A	358	18.954	-4.180	43.932	1.00 26.07
ATOM	365	0	ILE A		18.170 21.371	-4.859 -4.633	43.261 43.891	1.00 26.53 1.00 24.88
ATOM ATOM	366 367	CB CG:	ILE A L ILE A		22.731	-4.358	43.262	1.00 31.03
ATOM	368	CG	2 ILE A	. 358	21.074	-6.125	43.773	1.00 33.68
MOTA	369		L ILE A		22.836 18.749	-4.417 -3.920	41.769 45.215	1.00 32.41 1.00 23.68
ATOM ATOM	370 371	N CA	SER A		17.524	-4.297	45.906	1.00 27.31
MOTA	372		SER A	. 359	16.307	-3.645	45.281	1.00 26.81
MOTA	373	0	SER A		15.259 17.526	-4.304 -3.949	45.149 47.422	
MOTA MOTA	374 375		SER A		18.585	-4.728	47.964	1.00 38.36
ATOM	376	N	TRP A	360	16.440	-2.402		
MOTA	377		TRP A		15.336 14.948	-1.654 -2.256		1.00 20.64 1.00 21.97
ATOM	378	_	INF A	. 500	_ 1.JIU		 	

ATOM	379	^	TRP A 3	260	13.758	-2.569	42.651	1.00 23.85
ATOM	380	O CB	TRP A 3		15.787	-0.183	44.026	1.00 23.63
ATOM	381	CG	TRP A 3	360	14.982	0.581	43.022	1.00 22.58
ATOM	382 383	CD1	TRP A 3		13.724 15.352	1.108 0.891	43.219 41.666	1.00 24.32 1.00 21.14
ATOM ATOM	384	CD2 NE1	TRP A 3		13.302	1.741	42.050	1.00 21.14
ATOM	385	CE2	TRP A 3		14.278	1.619	41.098	1.00 22.86
ATOM	386	CE3	TRP A 3		16.492	0.703	40.922	1.00 16.31
ATOM ATOM	387 388	CZ2 CZ3	TRP A 3		14.321 16.550	2.172 1.216	39.807 39.616	1.00 22.60 1.00 21.78
ATOM	389	CH2	TRP A 3		15.477	1.210	39.016	1.00 21.78
MOTA	390	N	ALA A 3	361	15.953	-2.554	42.082	1.00 20.48
ATOM	391	CA	ALA A 3		15.724	-3.136	40.771	1.00 24.14
ATOM ATOM	392 393	С 0	ALA A 3		15.009 14.137	-4.478 -4.799	40.913 40.095	1.00 26.60 1.00 27.72
ATOM	394	CB	ALA A 3		17.037	-3.312	40.014	1.00 23.41
ATOM	395	N	LYS A 3		15.357	-5.249	41.958	1.00 26.22
ATOM ATOM	396 397	CA C	LYS A 3		14.708 13.273	-6.564 -6.438	42.127 42.572	1.00 26.09 1.00 27.56
MOTA	398	Õ	LYS A 3		12.486	-7.396	42.492	1.00 27.56
MOTA	399	CB	LYS A 3		15.609	-7.446	43.018	1.00 31.05
ATOM ATOM	400 401	CG CD	LYS A 3		16.947 17.809	-7.716 -8.604	42.322 43.227	1.00 33.04 1.00 39.64
ATOM	402	CE	LYS A 3		18.966	-9.239	42.480	1.00 39.04
MOTA	403	NZ	LYS A 3		19.957	-9.851	43.441	1.00 44.61
ATOM ATOM	404 405	N CA	LYS A 3		12.818 11.444	-5.284 -5.081	43.041 43.441	1.00 29.47 1.00 29.52
ATOM	406	C	LYS A 3		10.513	-4.591	42.331	1.00 29.32
MOTA	407	0	LYS A 3	363	9.292	-4.506	42.590	1.00 31.07
ATOM	408	CB	LYS A 3		11.329	-4.144 -4.650	44.611	1.00 30.07 1.00 33.52
ATOM ATOM	409 410	CG CD	LYS A 3		11.820 11.809	-3.501	45.939 46.942	1.00 35.52
ATOM	411	CE	LYS A 3	363	12.392	-3.957	48.275	1.00 40.38
ATOM	412	NZ	LYS A 3		13.862	-4.097	48.227	1.00 43.85
ATOM ATOM	413 414	N CA	ILE A 3		11.033 10.245	-4.284 -3.884	41.164 40.013	1.00 30.49 1.00 36.46
ATOM	415	C	ILE A 3		9.684	-5.159	39.377	1.00 37.50
ATOM	416	0	ILE A 3		10.438	-6.022	38.937	1.00 33.78
ATOM ATOM	417 418	CB CG1	ILE A 3		11.099 11.618	-3.127 -1.828	38.995 39.650	1.00 33.25 1.00 33.92
ATOM	419	CG2	ILE A 3	364	10.359	-2.830	37.703	1.00 37.49
MOTA	420	CD1	ILE A 3		12.686	-1.134	38.838	1.00 29.17
ATOM ATOM	421 422	N CA	PRO A 3		8.363 7.691	-5.269 -6.449	39.351 38.834	1.00 40.37 1.00 40.35
ATOM	423	C	PRO A 3		8.279	-6.909	37.527	1.00 38.24
ATOM	424	0	PRO A 3		8.500	-6.088	36.655	1.00 36.01
ATOM ATOM	425 426	CB CG	PRO A 3		6.220 6.103	-6.019 -5.098	38.708 39.901	1.00 39.06 1.00 39.95
ATOM	427	CD	PRO A 3	365	7.379	-4.275	39.835	1.00 41.03
ATOM	428 429	N	GLY A 3		8.650 9.192	-8.190	37.442	1.00 39.52 1.00 39.49
ATOM ATOM	430	CA C	GLY A 3		10.687	-8.725 -8.686	36.216 36.054	1.00 35.49
ATOM	431	ō	GLY A 3		11.234	-9.500	35.322	1.00 34.12
ATOM	432 433	N	PHE A 3		11.361 12.806	-7.787 -7.698	36.785 36.677	1.00 35.43 1.00 34.62
ATOM ATOM	433	CA C	PHE A 3		13.529	-9.009	37.030	1.00 34.82
ATOM	435	0	PHE A 3	367	14.385	-9.403	36.245	1.00 29.96
ATOM	436 437	CB	PHE A 3		13.354 14.805	-6.572 -6.279	37.552 37.261	1.00 32.50 1.00 32.90
ATOM ATOM	437	CG CD1	PHE A 3		15.144	-5.390	36.251	1.00 32.90
ATOM	439	CD2	PHE A 3	367	15.815	-6.869	37.988	1.00 30.54
ATOM ATOM	$\frac{440}{441}$	CE1 CE2			16.468 17.152	-5.134 -6.598	35.986 37.722	1.00 24.88 1.00 27.58
ATOM	442	CZ	PHE A 3		17.476	-5.704	36.716	1.00 27.38
ATOM	443	N	VAL A		13.172	-9.684	38.100	1.00 32.49
ATOM ATOM	444 445	CA C	VAL A 3		13.883 13.578	-10.923 -12.051	38.447 37.478	1.00 32.31 1.00 36.24
ATOM	446	0	VAL A 3		14.321	-13.046	37.437	1.00 33.42
ATOM	447	CB	VAL A		13.680	-11.377	39.901	1.00 35.22
ATOM ATOM	448 449		VAL A 3		14.393 12.202	-10.440 -11.506	40.889 40.251	1.00 35.30 1.00 39.26
ATOM	450	N N	GLU A 3			-11.897	36.643	1.00 41.05
ATOM	451	CA	GLU A 3			-12.899	35.627	1.00 43.35
ATOM ATOM	452 453	С 0	GLU A 3		13.059 13.077	-12.766 -13.642	34.378 33.500	1.00 43.93 1.00 43.51
ATOM	454	CB	GLU A 3		10.718	-12.789	35.299	1.00 44.22
MOTA	455	CG	GLU A 3	369	9.861	-13.359	36.425	1.00 53.77

ATOM		CD GLU A 369	8.375 -13.179	36.203	1.00 58.72
ATOM ATOM	458	OE1 GLU A 369 OE2 GLU A 369	7.974 -12.735 7.559 -13.460	35.104 37.111	1.00 61.35
ATOM ATOM		N LEU A 370 CA LEU A 370	13.752 -11.636 14.641 -11.430	34.229 33.093	1.00 42.33 1.00 39.24
ATOM ATOM		C LEU A 370 O LEU A 370	15.821 -12.375 16.080 -12.782	33.255 34.396	1.00 38.86 1.00 43.46
MOTA	463	CB LEU A 370	15.169 -9.992	33.024	1.00 38.90
MOTA MOTA		CG LEU A 370 CD1 LEU A 370	14.069 -8.932 14.661 -7.526	32.855 32.880	1.00 36.26 1.00 38.31
MOTA	466	CD2 LEU A 370	13.335 -9.131 16.502 -12.715	31.534 32.176	1.00 41.34 1.00 41.52
ATOM ATOM		CA SER A 371	17.658 -13.594	32.332	1.00 39.96
ATOM ATOM		C SER A 371 O SER A 371	18.720 -12.862 18.730 -11.620	33.148 33.243	1.00 43.04 1.00 39.51
MOTA	471	CB SER A 371	18.255 -13.899 18.677 -12.649	30.955 30.419	1.00 43.12 1.00 38.32
MOTA MOTA		OG SER A 371 N LEU A 372	19.675 -13.612	33.675	1.00 31.82
ATOM ATOM		CA LEU A 372 C LEU A 372	20.754 -13.028 21.563 -12.049	34.452 33.611	1.00 32.28 1.00 34.87
MOTA	476	O LEU A 372	22.098 -11.009 21.640 -14.147	34.047 34.974	1.00 33.17 1.00 38.05
ATOM ATOM		CB LEU A 372 CG LEU A 372	22.793 -13.858	35.916	1.00 39.95
ATOM ATOM		CD1 LEU A 372 CD2 LEU A 372	22.273 -13.117 23.410 -15.187	37.149 36.387	1.00 44.82 1.00 42.80
ATOM	481	N PHE A 373	21.787 -12.417	32.333 31.483	1.00 31.42 1.00 31.42
ATOM ATOM	482 483	CA PHE A 373 C PHE A 373	22.547 -11.511 21.782 -10.220	31.250	1.00 24.19
MOTA	484	O PHE A 373 CB PHE A 373	22.455 -9.193 22.926 -12.143	31.101 30.138	1.00 29.66 1.00 36.67
MOTA MOTA	485 486	CG PHE A 373	23.950 -13.236	30.303	1.00 43.12 1.00 45.48
ATOM ATOM	487 488	CD1 PHE A 373 CD2 PHE A 373	24.689 -13.358 24.170 -14.146	31.467 29.273	1.00 46.57
ATOM	489	CE1 PHE A 373 CE2 PHE A 373	25.611 -14.378 25.101 -15.162	31.619 29.416	1.00 52.03 1.00 49.07
ATOM ATOM	490 491	CZ PHE A 373	25.820 -15.266	30.584	1.00 49.72
ATOM ATOM	492 493	N ASP A 374 CA ASP A 374	20.468 -10.304 19.704 -9.061	31.152 30.891	1.00 29.02
MOTA	494	C ASP A 374	19.705 -8.212 19.921 -6.991	32.177 32.125	1.00 33.83
MOTA MOTA	495 496	CB ASP A 374	18.300 -9.313	30.398	1.00 32.07 1.00 41.32
MOTA MOTA	497 498	CG ASP A 374 OD1 ASP A 374	18.189 -9.669 19.188 -9.555	28.906 28.161	1.00 40.18
ATOM	499	OD2 ASP A 374	17.086 -10.088 19.591 -8.865	28.467 33.347	1.00 39.38 1.00 32.60
MOTA MOTA	50 0 50 1	CA GLN A 375	19.608 -8.071	34.583	1.00 31.64
MOTA MOTA	502 503	C GLN A 375 O GLN A 375	20.916 -7.333 20.870 -6.138	34.726 35.028	1.00 30.67 1.00 25.21
MOTA	504	CB GLN A 375	19.352 -8.889 17.995 -9.549	35.868 35.848	1.00 32.73 1.00 26.43
ATOM ATOM	505 506	CD GLN A 375	17.776 -10.429	37.077	1.00 37.35 1.00 37.23
ATOM ATOM	50 7 508	OE1 GLN A 375 NE2 GLN A 375	18.178 -10.067 17.123 -11.571	38.176 36.895	1.00 32.94
MOTA	509 510	N VAL A 376 CA VAL A 376	22.037 -8.009 23.342 -7.387	34.515 34.620	1.00 26.87 1.00 29.51
MOTA MOTA	511	C VAL A 376	23.603 -6.347	33.546	1.00 28.83 1.00 27.40
ATOM ATOM	512 513	O VAL A 376 CB VAL A 376	24.160 -5.246 24.406 -8.503	33.774 34.672	1.00 32.02
MOTA	514 515	CG1 VAL A 376 CG2 VAL A 376	25.813 -7.968 24.140 -9.362	34.697 35.927	1.00 26.56 1.00 35.02
MOTA MOTA	516	N ARG A 377	23.206 -6.612	32.296	1.00 25.73 1.00 27.53
MOTA MOTA	517 518	CA ARG A 377 C ARG A 377	23.455 -5.585 22.663 -4.309	31.596	1.00 23.06
ATOM ATOM	519 520	O ARG A 377 CB ARG A 377	23.199 -3.217 23.134 -6.117		1.00 25.17 1.00 34.14
MOTA	521	CG ARG A 377	21.735 -5.910	29.433	1.00 40.47 1.00 48.13
MOTA MOTA	522 523	CD ARG A 377 NE ARG A 377	20.220 -6.455	27.686	1.00 45.66
ATOM	524 525	CZ ARG A 377 NH1 ARG A 377	19.401 -5.929 18.208 -6.486		1.00 53.53 1.00 51.20
ATOM ATOM	526	NH2 ARG A 377	19.793 -4.873	26.093	1.00 55.56
MOTA ATOM	527 528	N LEU A 378 CA LEU A 378	20.599 -3.260	32.361	1.00 22.74
ATOM ATOM	529 530	C LEU A 378 O LEU A 378	21.273 -2.443 21.502 -1.230		1.00 24.01
ATOM	531	CB LEU A 378	19.172 -3.599 18.322 -4.303	32.766	1.00 21.48
MOTA	532	CG LEU A 378	10.322 4.30		· · -

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ATOM 534 CD1 LEU A 378
ATOM 537 C LEU A 379
ATOM 538 O LEU A 379
ATOM 540 CG LEU A 379 21.188 -3.651 37.669 1.00 24.99 ATOM 541 CD1 LEU A 379 21.460 -4.962 38.405 1.00 24.61 ATOM 542 CD2 LEU A 379 20.694 -2.570 38.597 1.00 27.69 ATOM 543 N GLU A 380 24.415 -2.461 34.539 1.00 24.06 ATOM 544 CA GLU A 380 25.714 -1.922 34.173 1.00 25.95 ATOM 546 O GLU A 380 25.571 -0.678 33.311 1.00 25.90 ATOM 546 O GLU A 380 26.337 0.267 33.415 1.00 27.21 ATOM 546 O GLU A 380 26.337 0.267 33.415 1.00 27.21 ATOM 547 CB GLU A 380 26.467 -3.046 33.416 1.00 35.58 ATOM 549 CD GLU A 380 28.719 -2.197 34.012 1.00 50.26 ATOM 550 OE1 GLU A 380 28.719 -2.197 34.012 1.00 50.26 ATOM 550 OE1 GLU A 380 29.012 -2.992 34.923 1.00 50.00 ATOM 551 OE2 GLU A 380 29.012 -2.992 34.923 1.00 50.00 ATOM 551 OE2 GLU A 380 29.012 -2.992 34.923 1.00 50.00 ATOM 553 CA SER A 381 24.559 -0.692 32.421 1.00 22.96 ATOM 555 O SER A 381 24.391 0.472 31.597 1.00 22.96 ATOM 555 O SER A 381 24.391 0.472 31.597 1.00 22.96 ATOM 555 O SER A 381 24.391 0.472 31.597 1.00 22.96 ATOM 555 O SER A 381 23.796 1.718 32.260 1.00 22.00 ATOM 555 O SER A 381 23.427 0.135 30.443 1.00 26.35 ATOM 556 CB SER A 381 23.427 0.135 30.443 1.00 26.35 ATOM 557 OG SER A 381 23.427 0.135 30.443 1.00 26.35 ATOM 558 N CYS A 382 22.991 1.574 33.279 1.00 19.49 ATOM 560 C CYS A 382 22.268 2.746 33.789 1.00 19.49 ATOM 560 C CYS A 382 22.268 2.746 33.789 1.00 19.49 ATOM 561 O CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 562 CB CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 564 N TRP A 383 23.591 1.235 35.363 1.00 23.70 ATOM 566 C TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 566 C TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 568 CB TRP A 383 24.047 4.435 37.510 1.00 17.45 ATOM 568 CB TRP A 383 24.047 4.435 37.510 1.00 17.45 ATOM 569 CG TRP A 383 24.047 4.435 37.564 1.00 20.65 ATOM 560 C TRP A 383 24.047 4.435 37.564 1.00 20.65 ATOM 560 C TRP A 383 24.047 4.435 37.510 1.00 17.45 ATOM 568 CB TRP A 383 24.047 4.435 37.510 1.00 17.45 ATOM 569 CG TRP A 383 24.067 2.023 38.033 1.00 17.80 ATOM 569 CG TRP A 383 24.067 2.2928 37.985 1.00 18.96 ATOM 570 CD1 TRP A 383 27.125
ATOM 542 CD2 LEU A 379
ATOM 544 CA GLU A 380 25.714 -1.922 34.173 1.00 25.95 ATOM 545 C GLU A 380 25.571 -0.678 33.311 1.00 25.00 ATOM 546 O GLU A 380 26.337 0.267 33.415 1.00 27.21 ATOM 547 CB GLU A 380 26.467 -3.046 33.415 1.00 27.21 ATOM 547 CB GLU A 380 27.815 -2.632 32.866 1.00 43.85 ATOM 549 CD GLU A 380 28.719 -2.197 34.012 1.00 50.26 ATOM 550 OE1 GLU A 380 29.079 -1.015 33.949 1.00 50.00 ATOM 551 OE2 GLU A 380 29.079 -1.015 33.949 1.00 52.17 ATOM 551 OE2 GLU A 380 29.079 -1.015 33.949 1.00 52.17 ATOM 553 CA SER A 381 24.559 -0.692 32.421 1.00 22.96 ATOM 555 O SER A 381 24.391 0.472 31.597 1.00 20.93 ATOM 555 O SER A 381 24.076 2.802 31.757 1.00 22.90 ATOM 555 O SER A 381 23.427 0.135 30.443 1.00 26.35 ATOM 558 N CYS A 382 22.991 1.574 33.279 1.00 19.49 ATOM 559 CA CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 560 C CYS A 382 22.268 2.746 33.789 1.00 20.75 ATOM 561 O CYS A 382 22.268 2.746 33.789 1.00 20.55 ATOM 563 SG CYS A 382 22.2649 3.184 35.179 1.00 20.55 ATOM 563 SG CYS A 382 22.2649 3.184 35.179 1.00 20.55 ATOM 565 CA TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 566 C TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 566 C TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 567 O TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.067 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 24.067 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 24.067 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 24.067 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 24.067 2.020 38.033 1.00 18.03 ATOM 570 CD1 TRP A 383 24.067 2.020 38.033 1.00 18.03 ATOM 570 CD1 TRP A 383 24.067 2.020 38.033 1.00 18.03 ATOM 570 CD1 TRP A 383 24.067 2.020 38.033 1.00 18.90 ATOM 570 CD1 TRP A 383 26.064 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27
ATOM 545 C GLU A 380 25.571 -0.678 33.311 1.00 25.00 ATOM 546 O GLU A 380 26.337 0.267 33.415 1.00 27.21 ATOM 547 CB GLU A 380 26.467 -3.046 33.416 1.00 35.58 ATOM 548 CG GLU A 380 27.815 -2.632 32.866 1.00 43.85 ATOM 559 CA CYS A 382 22.268 2.746 33.416 1.00 27.21 1.00 550.26 ATOM 550 OEI GLU A 380 29.012 -2.992 34.923 1.00 50.00 ATOM 551 OE2 GLU A 380 29.079 -1.015 33.949 1.00 52.17 ATOM 552 N SER A 381 24.559 -0.692 32.421 1.00 22.96 ATOM 555 O SER A 381 24.391 0.472 31.597 1.00 20.93 ATOM 554 C SER A 381 24.391 0.472 31.597 1.00 20.93 ATOM 555 O SER A 381 23.796 1.718 32.260 1.00 22.00 ATOM 555 O SER A 381 23.796 1.718 32.260 1.00 22.00 ATOM 556 CB SER A 381 23.369 1.319 29.665 1.00 41.12 ATOM 558 N CYS A 382 22.991 1.574 33.279 1.00 19.49 ATOM 556 CB CYS A 382 22.264 3.184 35.179 1.00 20.72 ATOM 560 C CYS A 382 22.264 3.184 35.179 1.00 20.55 ATOM 561 O CYS A 382 22.264 3.184 35.179 1.00 20.55 ATOM 563 SG CYS A 382 22.032 4.173 35.591 1.00 19.49 ATOM 563 SG CYS A 382 22.032 4.173 35.591 1.00 18.26 ATOM 565 CA TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 566 C TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 567 O TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 560 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 560 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 560 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 560 CG TRP A 383 24.047 4.435 37.510 1.00 18.50 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 570 CD1 TRP A 383 2
ATOM 547 CB GLU A 380
ATOM 549 CD GLU A 380
ATOM 551 OE2 GLU A 380 29.079 -1.015 33.949 1.00 52.17 ATOM 552 N SER A 381 24.559 -0.692 32.421 1.00 22.96 ATOM 553 CA SER A 381 24.391 0.472 31.597 1.00 20.93 ATOM 554 C SER A 381 23.796 1.718 32.260 1.00 22.00 ATOM 555 O SER A 381 24.076 2.802 31.757 1.00 25.94 ATOM 556 CB SER A 381 23.427 0.135 30.443 1.00 26.35 ATOM 557 OG SER A 381 23.369 1.319 29.665 1.00 41.12 ATOM 558 N CYS A 382 22.991 1.574 33.279 1.00 19.49 ATOM 559 CA CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 550 C CYS A 382 22.264 2.746 33.789 1.00 20.72 ATOM 560 C CYS A 382 22.649 3.184 35.179 1.00 20.55 ATOM 561 O CYS A 382 22.032 4.173 35.591 1.00 18.26 ATOM 563 SG CYS A 382 20.784 2.232 33.926 1.00 20.19 ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 565 CA TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 565 CA TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 567 O TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 568 CB TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 568 CB TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 569 CG TRP A 383 24.047 4.435 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NC1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 552 N SER A 381 24.559 -0.692 32.421 1.00 22.96 ATOM 553 CA SER A 381 24.391 0.472 31.597 1.00 20.93 ATOM 554 C SER A 381 23.796 1.718 32.260 1.00 22.00 ATOM 555 O SER A 381 24.076 2.802 31.757 1.00 25.94 ATOM 556 CB SER A 381 23.427 0.135 30.443 1.00 26.35 ATOM 557 OG SER A 381 23.369 1.319 29.665 1.00 41.12 ATOM 558 N CYS A 382 22.991 1.574 33.279 1.00 19.49 ATOM 559 CA CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 560 C CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 561 O CYS A 382 22.0649 3.184 35.179 1.00 20.55 ATOM 561 O CYS A 382 22.032 4.173 35.591 1.00 18.26 ATOM 562 CB CYS A 382 20.784 2.232 33.926 1.00 20.19 ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 564 N TRP A 383 23.692 2.615 35.831 1.00 23.70 ATOM 565 CA TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 568 CB TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 568 CB TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 569 CG TRP A 383 24.067 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 570 CD1 TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 571 CD2 TRP A 383 26.081 2.031 37.564 1.00 20.665 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NEI TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 554 C SER A 381 23.796 1.718 32.260 1.00 22.00 ATOM 555 O SER A 381 24.076 2.802 31.757 1.00 25.94 ATOM 556 CB SER A 381 23.427 0.135 30.443 1.00 26.35 ATOM 557 OG SER A 381 23.369 1.319 29.665 1.00 41.12 ATOM 558 N CYS A 382 22.991 1.574 33.279 1.00 19.49 ATOM 559 CA CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 560 C CYS A 382 22.649 3.184 35.179 1.00 20.55 ATOM 561 O CYS A 382 22.649 3.184 35.179 1.00 20.55 ATOM 562 CB CYS A 382 22.032 4.173 35.591 1.00 18.26 ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 565 CA TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 565 CA TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 23.714 2.980 37.265 1.00 17.92 ATOM 567 O TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 568 CB TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 569 CG TRP A 383 24.667 2.020 38.033 1.00 17.80 ATOM 569 CG TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 556 CB SER A 381 23.427 0.135 30.443 1.00 26.35 ATOM 557 OG SER A 381 23.369 1.319 29.665 1.00 41.12 ATOM 558 N CYS A 382 22.991 1.574 33.279 1.00 19.49 ATOM 559 CA CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 560 C CYS A 382 22.649 3.184 35.179 1.00 20.55 ATOM 561 O CYS A 382 22.032 4.173 35.591 1.00 18.26 ATOM 562 CB CYS A 382 20.784 2.232 33.926 1.00 20.19 ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 564 N TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 565 CA TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 568 CB TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 569 CG TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.96 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 19.72 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 558 N CYS A 382 22.991 1.574 33.279 1.00 19.49 ATOM 559 CA CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 560 C CYS A 382 22.649 3.184 35.179 1.00 20.55 ATOM 561 O CYS A 382 22.032 4.173 35.591 1.00 18.26 ATOM 562 CB CYS A 382 20.784 2.232 33.926 1.00 20.19 ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 564 N TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 565 CA TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 568 CB TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 569 CG TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 19.72 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 559 CA CYS A 382 22.268 2.746 33.789 1.00 20.72 ATOM 560 C CYS A 382 22.649 3.184 35.179 1.00 20.55 ATOM 561 O CYS A 382 22.032 4.173 35.591 1.00 18.26 ATOM 562 CB CYS A 382 20.784 2.232 33.926 1.00 20.19 ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 564 N TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 565 CA TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 567 O TRP A 383 24.047 4.435 37.510 1.00 17.80 ATOM 568 CB TRP A 383 24.667 2.020 38.033 1.00 17.80 ATOM 569 CG TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 561 O CYS A 382 22.032 4.173 35.591 1.00 18.26 ATOM 562 CB CYS A 382 20.784 2.232 33.926 1.00 20.19 ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 564 N TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 565 CA TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 567 O TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 568 CB TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 563 SG CYS A 382 20.419 1.235 35.363 1.00 23.70 ATOM 564 N TRP A 383 23.692 2.615 35.831 1.00 16.62 ATOM 565 CA TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 566 C TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 567 O TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 568 CB TRP A 383 24.667 2.020 38.033 1.00 17.80 ATOM 569 CG TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 564 N TRP A 383 23.714 2.980 37.265 1.00 17.45 ATOM 565 CA TRP A 383 24.047 4.435 37.510 1.00 17.92 ATOM 567 O TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 568 CB TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 566 C TRP A 383 23.395 5.063 38.383 1.00 17.80 ATOM 567 O TRP A 383 24.667 2.020 38.033 1.00 18.03 ATOM 569 CG TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 568 CB TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72
ATOM 572 NEI TRP A 383 27.979 1.540 36.470 1.00 19.72
20 202 2 595 37 289 1 00 22 08
ATOM 573 CE2 TRP A 383 27.160 4.002 38.915 1.00 18.46 ATOM 574 CE3 TRP A 383 27.160 4.002 38.915 1.00 22.38
ATOM 576 CZ2 TRP A 383 28.309 4.725 39.045 1.00 22.44
ATOM 577 CH2 TRP A 383 29.483 4.358 38.328 1.00 23.23 ATOM 578 N MET A 384 24.955 5.020 36.711 1.00 14.97
ATOM 579 CA MET A 384 25.254 6.450 37.001 1.00 15.11
ATOM 581 O MET A 384 23.729 8.291 37.354 1.00 14.18
ATOM 583 CG MET A 384 26.749 8.399 36.546 1.00 19.66
ATOM 584 SD MEI A 384 29.061 8.231 38.081 1.00 19.18
ATOM 587 CA GLU A 385 22.051 7.674 35.297 1.00 15.30
ATOM 588 C GLU A 385 20.996 7.593 36.411 1.00 15.06
ATOM 590 CB GLU A 385 21.445 7.258 33.915 1.00 18.49
ATOM 591 CD GLU A 385 19.946 8.069 32.000 1.00 29.86 ATOM 592 CD GLU A 385 19.946 8.069 31.267 1.00 21.88
ATOM 594 OE2 GLU A 385 18.913 8.711 31.676 1.00 30.28
ATOM 595 N VAL A 386 20.010 15.50 ATOM 596 CA VAL A 386 19.838 6.276 38.070 1.00 15.50
ATOM 597 C VAL A 386 20.200 7.747 39.926 1.00 17.88
ATOM 599 CB VAL A 386 19.719 4.793 38.408 1.00 15.13 ATOM 600 CG1 VAL A 386 18.872 4.559 39.647 1.00 17.57
ATOM 601 CG2 VAL A 386 19.005 4.159 37.192 1.00 20.15
ATOM 603 CA LEU A 387 22.059 7.752 40.744 1.00 15.55 ATOM 603 CA LEU A 387 22.059 7.752 40.744 1.00 15.84
ATOM 605 O LEU A 387 21.360 9.916 41.401 1.00 19.29
ATOM 606 CB LEU A 387 23.592 7.579 40.850 1.00 14.14 ATOM 607 CG LEU A 387 24.058 6.259 41.474 1.00 15.59
ATOM 607 CG LEU A 387 25.617 6.319 41.591 1.00 16.49 ATOM 609 CD2 LEU A 387 23.356 5.939 42.802 1.00 19.80

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MOTA	610 N MET A 388	22.057	9.734	39.250	1.00 14.43 1.00 15.37
MOTA	611 CA MET A 388		11.185	39.019 38.940	1.00 15.37
MOTA	612 C MET A 388		11.580 12.648	39.466	1.00 15.03
MOTA	613 O MET A 388		11.558	37.691	1.00 13.28
ATOM	614 CB MET A 388 615 CG MET A 388		11.508	37.914	1.00 16.22
ATOM	615 CG MET A 388 616 SD MET A 388		12.007	36.345	1.00 15.49
ATOM	617 CE MET A 388		12.485	36.996	1.00 17.90
MOTA	618 N MET A 389	19.617	10.631	38.473	1.00 12.07
ATOM	619 CA MET A 389		10.977	38.496	1.00 16.42
MOTA	620 C MET A 389	17.675	11.200	39.947 40.261	1.00 18.92 1.00 17.10
MOTA	621 O MET A 389	16.902 17.327	12.135 9.898	37.804	1.00 17.10
MOTA	622 CB MET A 389 623 CG MET A 389	15.804	10.185	37.609	1.00 20.74
MOTA ATOM	624 SD MET A 389	15.549	11.620	36.521	1.00 21.26
ATOM	625 CE MET A 389	14.006	12.304	37.143	1.00 31.58
ATOM	626 N GLY A 390	18.124	10.306	40.839	1.00 19.95
ATOM	627 CA GLY A 390	17.755	10.442 11.763	42.274 42.831	1.00 19.62 1.00 24.49
MOTA	628 C GLY A 390 629 O GLY A 390	18.298 17.603	12.480	43.574	1.00 21.09
MOTA	629 O GLY A 390 630 N LEU A 391	19.539	12.120	42.484	1.00 17.24
MOTA ATOM	631 CA LEU A 391	20.106	13.363	42.942	1.00 18.33
ATOM	632 C LEU A 391	19.252	14.546	42.476	1.00 18.46
MOTA	633 O LEU A 391	19.054	15.541	43.203 42.329	1.00 19.59 1.00 15.42
MOTA	634 CB LEU A 391	21.505 22.244	13.511 14.833	42.480	1.00 15.46
MOTA MOTA	635 CG LEU A 391 636 CD1 LEU A 391	22.499	15.155	43.968	1.00 23.19
ATOM	637 CD2 LEU A 391	23.600	14.728	41.777	1.00 17.31
ATOM	638 N MET A 392	18.862	14.513	41.199	1.00 15.68
MOTA	639 CA MET A 392	18.091	15.642	40.650	1.00 18.68 1.00 20.62
MOTA	640 C MET A 392	16.770 16.405	15.763 16.876	41.383 41.784	1.00 20.62
ATOM	641 O MET A 392 642 CB MET A 392	17.873	15.414	39.153	1.00 19.75
MOTA MOTA	643 CG MET A 392	19.179	15.445	38.372	1.00 22.97
ATOM	644 SD MET A 392	18.739	15.196	36.596	1.00 24.98
MOTA	645 CE MET A 392	20.397	15.422	35.940 41.589	1.00 25.59 1.00 18.58
ATOM	646 N TRP A 393 647 CA TRP A 393	16.113 14.877	14.616 14.673	42.386	1.00 24.71
MOTA MOTA	647 CA TRP A 393 648 C TRP A 393	15.124	15.209	43.802	1.00 26.53
ATOM	649 O TRP A 393	14.279	16.016	44.283	1.00 25.74
ATOM	650 CB TRP A 393	14.243	13.287	42.476	1.00 21.18 1.00 24.40
ATOM	651 CG TRP A 393	13.059	13.235 12.632	43.404 44.621	1.00 24.40 1.00 27.20
MOTA	652 CD1 TRP A 393 653 CD2 TRP A 393	13.005 11.776	13.838	43.164	1.00 25.32
ATOM ATOM	653 CD2 TRP A 393 654 NE1 TRP A 393	11.746	12.830	45.186	1.00 26.38
MOTA	655 CE2 TRP A 393	10.993	13.572	44.304	1.00 26.02
MOTA	656 CE3 TRP A 393	11.232	14.584	42.116 44.408	1.00 24.98 1.00 26.15
MOTA	657 CZ2 TRP A 393	9.671 9.879	14.005 15.004	42.195	1.00 26.45
ATOM	658 CZ3 TRP A 393 659 CH2 TRP A 393	9.148	14.720	43.368	1.00 28.96
MOTA MOTA	660 N ARG A 394	16.175	14.790	44.508	1.00 21.62
MOTA	661 CA ARG A 394	16.427	15.299	45.869	1.00 20.86 1.00 24.67
MOTA	662 C ARG A 394	16.740 16.496	16.786 17.528	45.833 46.796	1.00 23.01
ATOM	663 O ARG A 394 664 CB ARG A 394	17.623	14.563	46.533	1.00 18.23
ATOM ATOM	665 CG ARG A 394	17.184	13.127	46.915	1.00 22.23
MOTA	666 CD ARG A 394	18.268	12.424	47.731	1.00 21.34 1.00 22.33
MOTA	667 NE ARG A 394	19.583	12.406 11.465	47.096 46.204	1.00 22.33
MOTA	668 CZ ARG A 394 669 NH1 ARG A 394	19.990 19.128	10.506		1.00 19.75
ATOM ATOM	669 NH1 ARG A 394 670 NH2 ARG A 394	21.240	11.562	45.776	1.00 19.94
ATOM	671 N SER A 395	17.255	17.320	44.742	1.00 21.15
ATOM	672 CA SER A 395	17.635	18.714		1.00 21.44 1.00 19.15
ATOM	673 C SER A 395	16.584 16.879	19.641 20.820		
ATOM	674 O SER A 395 675 CB SER A 395	18.892	18.684		
MOTA MOTA	676 OG SER A 395	19.875	17.836	44.335	1.00 18.21
MOTA	677 N ILE A 396	15.440	19.141		
MOTA	678 CA ILE A 396	14.453 14.005	19.950 21.237		
MOTA	679 C ILE A 396 680 O ILE A 396	13.937	22.268		1.00 28.08
ATOM ATOM	680 O ILE A 396 681 CB ILE A 396	13.332	18.975	42.576	1.00 31.97
MOTA	682 CG1 ILE A 396	12.714	19.384		
MOTA	683 CG2 ILE A 396	12.331 11.807	18.782 18.343		
ATOM ATOM	684 CD1 ILE A 396 685 N ASP A 397	13.775	21.172	44.899	1.00 27.38
ATOM	686 CA ASP A 397	13.317	22.305		1.00 30.34

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ATOM ATOM	687 688	C ASP A 39' O ASP A 39'		14.462 14.280	23.046 23.798	46.363 47.336	1.00 33.09 1.00 33.75
MOTA MOTA MOTA	689 690 691	CB ASP A 39 CG ASP A 39 OD1 ASP A 39	7	12.426 11.165 10.711	21.706 21.107 21.642	46.827 46.262 45.238	1.00 31.40 1.00 34.81 1.00 36.72
ATOM ATOM	692 693	OD2 ASP A 39 N HIS A 39	7 3	10.636 15.690 16.869	20.123 22.885 23.510	46.799 45.876 46.427	1.00 42.07 1.00 26.91 1.00 31.70
ATOM ATOM ATOM	694 695 696	C HIS A 39 O HIS A 39	3 3	17.772 18.930	24.132 23.699	45.405 45.195	1.00 27.69 1.00 31.30
ATOM ATOM ATOM	697 698 699	CB HIS A 39 CG HIS A 39 ND1 HIS A 39	3	17.627 16.875 16.304	22.505 21.918 20.677	47.331 48.488 48.504	1.00 32.19 1.00 35.05 1.00 33.32
ATOM ATOM	700 701	CD2 HIS A 39 CE1 HIS A 39 NE2 HIS A 39	3 3	16.575 15.690 15.853	22.452 20.447 21.527	49.696 49.661 50.409	1.00 30.34 1.00 34.45 1.00 37.51
ATOM ATOM ATOM	702 703 704	N PRO A 39 CA PRO A 39	9 9	17.345 18.144	25.183 25.898	44.713 43.752	1.00 33.73 1.00 29.82
ATOM ATOM ATOM	705 706 707	C PRO A 39 O PRO A 39 CB PRO A 39	9	19.549 19.766 17.431	26.216 26.630 27.225	44.223 45.365 43.481	1.00 33.25 1.00 33.94 1.00 34.26
MOTA MOTA	708 709	CG PRO A 39 CD PRO A 39	9 9	16.273 16.032 20.500	27.257 25.857 25.996	44.391 44.891 43.336	1.00 34.08 1.00 33.97 1.00 28.90
MOTA MOTA MOTA	710 711 712	N GLY A 40 CA GLY A 40 C GLY A 40	0 0	21.921 22.590	26.254 25.173	43.561 44.418	1.00 29.24 1.00 25.18 1.00 27.24
MOTA MOTA MOTA	713 714 715	O GLY A 40 N LYS A 40 CA LYS A 40	1	23.787 21.860 22.470	25.298 24.150 23.122	44.704 44.863 45.672	1.00 25.56 1.00 26.68
MOTA MOTA	716 717 718	C LYS A 40 O LYS A 40	1 1	22.286 21.296 21.635	21.688 21.465 22.912	45.064 44.391 46.955	1.00 20.20 1.00 24.95 1.00 30.94
ATOM ATOM ATOM	719 720	CG LYS A 40 CD LYS A 40	1 1	21.844 22.115	23.694 25.154	48.203 48.045 49.389	1.00 43.57 1.00 45.37 1.00 48.67
ATOM ATOM ATOM	721 722 723	CE LYS A 40 NZ LYS A 40 N LEU A 40	1	22.201 20.883 23.267	25.882 26.446 20.878	49.784 45.374	1.00 51.08 1.00 20.86
ATOM ATOM ATOM	724 725 726	CA LEU A 40 C LEU A 40 O LEU A 40	2	23.112 22.957 23.914	19.446 18.664 18.555	44.987 46.275 47.078	1.00 22.31 1.00 21.03 1.00 19.86
MOTA MOTA	727 728	CB LEU A 40 CG LEU A 40	12 12	24.288 24.207 25.487	19.025 19.596 19.208	44.112 42.679 41.954	1.00 18.88 1.00 20.75 1.00 23.26
ATOM ATOM ATOM	729 730 731	CD1 LEU A 40 CD2 LEU A 40 N ILE A 40)2)3	23.011 21.760	19.057 18.072	41.840 46.414	1.00 22.84 1.00 19.33
ATOM ATOM ATOM	732 733 734	CA ILE A 40 C ILE A 40 O ILE A 40	3	21.468 21.916 21.112	17.280 15.809 14.947	47.619 47.407 47.151	1.00 20.88 1.00 20.74
ATOM ATOM ATOM	735 736 737	CB ILE A 4 CG1 ILE A 4 CG2 ILE A 4)3	20.006 19.419 19.785	17.287 18.695 16.535	48.022 48.148 49.355	1.00 20.45 1.00 28.69 1.00 25.33
MOTA MOTA	738 739	CD1 ILE A 4 N PHE A 4 CA PHE A 4)3)4	20.234 23.216 23.745	19.713 15.587 14.250	48.883 47.603 47.395	1.00 32.71 1.00 22.57 1.00 23.38
MOTA MOTA MOTA	740 741 742	C PHE A 4 O PHE A 4)4)4	23.132 22.779	13.275 12.120 14.338	48.383 48.095 47.413	1.00 23.34 1.00 23.60 1.00 21.32
MOTA MOTA MOTA	743 744 745	CB PHE A 4 CG PHE A 4 CD1 PHE A 4	04 04	25.284 25.845 26.195	14.745 16.065	46.053 45.825	1.00 22.32 1.00 20.75 1.00 21.33
MOTA MOTA MOTA	746 747 748	CD2 PHE A 4 CE1 PHE A 4 CE2 PHE A 4	04	26.003 26.704 26.479	13.816 16.480 14.227	45.024 44.603 43.802	1.00 19.07 1.00 20.69
MOTA MOTA MOTA	749 750 751	CZ PHE A 4 N ALA A 4 CA ALA A 4	05	26.871 23.051 22.409	15.550 13.741 13.027	43.573 49.614 50.715	1.00 20.96 1.00 23.85 1.00 26.71
MOTA MOTA	752 753	C ALA A 4	05 05	21.900 22.384 23.337	14.100 15.235 12.063	51.676 51.720 51.417	
ATOM ATOM ATOM	754 755 756	N PRO A 4 CA PRO A 4	06 06	20.986 20.427	13.724 14.651	52.568 53.539 54.322	1.00 32.52 1.00 37.50
MOTA MOTA MOTA	757 758 759	C PRO A 4 O PRO A 4 CB PRO A 4	06 06	21.459 21.222 19.464		54.615 54.362	1.00 34.95 1.00 37.05
MOTA MOTA MOTA	760 761 762	CG PRO A 4 CD PRO A 4 N ASP A 4	06	19.075 20.321 22.589	14.836		1.00 35.62 1.00 36.25
MOTA	763	CA ASP A	07	23.669	15.532	55.325	1.00 37.74

MOTA MOTA	764 765	C O	ASP A		24.942 26.067	15.713 15.939	54.485 54.972	1.00 35.68 1.00 35.16
ATOM ATOM	766 767	CB CG	ASP A	407 407	23.951 24.683	14.837 15.756	56.658 57.615	1.00 45.22 1.00 51.47
ATOM ATOM ATOM	768 769 770		ASP A ASP A LEU A	407	24.752 25.206 24.780	16.972 15.264 15.623	57.337 58.640 53.155	1.00 53.42 1.00 56.11 1.00 31.91
ATOM ATOM	771 772	CA C	LEU A	408	25.846 25.291	15.841 16.787	52.181 51.117	1.00 28.65 1.00 33.12
ATOM ATOM	773 774	O CB	LEU A	408	24.960 26.393	16.416 14.590	49.990 51.522	1.00 29.33 1.00 31.43
ATOM ATOM	775 776		LEU A	408	27.607 28.719 28.093	14.813	50.592 51.340 50.021	1.00 33.95 1.00 38.24 1.00 35.82
ATOM ATOM ATOM	777 778 779	N CA	LEU A VAL A VAL A	409	25.111 24.521	13.493 18.046 19.044	51.500 50.608	1.00 33.82 1.00 28.59 1.00 29.53
ATOM ATOM	780 781	0	VAL A	409	25.595 26.304	19.925 20.606	50.021 50.769	1.00 35.26 1.00 37.91
ATOM ATOM	782 783		VAL A	409	23.498	19.864	51.412	1.00 32.96 1.00 31.95
ATOM ATOM ATOM	784 785 786	N CA	VAL A LEU A	410	22.430 25.821 26.842	18.950 19.922 20.773	51.974 48.706 48.118	1.00 30.22 1.00 27.77 1.00 28.83
ATOM ATOM	787 788	C 0	LEU A	410	26.298 25.299	22.004 21.967	47.435 46.711	1.00 36.39 1.00 30.29
ATOM ATOM	789 790	CB CG	LEU A	410	27.768 28.396	20.016	47.156 47.612 46.683	1.00 32.95 1.00 36.56 1.00 34.98
ATOM ATOM ATOM	791 792 793		LEU A LEU A ASP A	410	29.505 28.902 26.938	18.242 18.749 23.164	49.045 47.686	1.00 34.38 1.00 41.39 1.00 33.11
ATOM ATOM	794 795	CA C	ASP A	411	26.539 27.299	24.350 24.255	46.933 45.600	1.00 34.05 1.00 29.65
ATOM ATOM	796 797	O CB	ASP A	411	28.419 26.884	23.727 25.698 26.016	45.543 47.590 48.674	1.00 30.84 1.00 41.04 1.00 49.46
ATOM ATOM ATOM	798 799 800		ASP A ASP A	411	25.865 25.986 24.919	25.474 26.778	49.792 48.410	1.00 49.40 1.00 56.56 1.00 55.40
MOTA MOTA	801 802	N CA	ARG A	412 412	26.745 27.345	24.819 24.827	44. 558 43. 227	1.00 31.76 1.00 29.21
ATOM ATOM	803 804 805	C O CB	ARG A ARG A	412	28.814 29.634 26.552	25.148 24.412 25.852	43.185 42.643 42.363	1.00 32.15 1.00 31.27 1.00 32.70
ATOM ATOM ATOM	806 807	CG CD	ARG A ARG A	412	27.039 28.132	25.878 26.912	40.919	1.00 36.94 1.00 42.09
MOTA MOTA	808 809	NE CZ	ARG A	412	28.493 29.542	26.982 27.671	39.276 38.812	1.00 40.17 1.00 45.07
ATOM ATOM ATOM	810 811 812	NH2	ARG A ARG A	412	29.784 30.303 29.233	27.654 28.339 26.262	37.497 39.683 43.809	1.00 38.97 1.00 37.08 1.00 34.93
MOTA MOTA	813 814	CA C	ASP A	413	30.622 31.593	26.701 25.749	43.828 44.469	1.00 40.84 1.00 36.09
MOTA ATOM	815 816	O CB	ASP A	413	32.796 30.740 30.199	25.792 28.092 29.197	44.201 44.465 43.580	1.00 37.87 1.00 46.18 1.00 51.56
ATOM ATOM ATOM	817 818 819		ASP A ASP A	413	30.090	29.017 30.278	42.345 44.130	1.00 54.10 1.00 53.78
MOTA MOTA	820 821	N CA	GLU A	414	31.171 32.096	24.776 23.800	45.271 45.838	1.00 36.43 1.00 33.20
MOTA MOTA MOTA	822 823 824	C O CB	GLU A GLU A	414	32.628 33.644 31.491	22.891 22.235 23.040	44.742 44.932 46.993	1.00 35.36 1.00 40.36 1.00 38.12
MOTA MOTA	825 826	CG CD	GLU A	414	30.691	24.000 23.195	47.892 49.151	1.00 41.60 1.00 42.56
MOTA MOTA	827 828	OE2		414	29.182 31.360 32.085	23.012 22.790 22.926	49.394 49.793 43.536	1.00 39.90 1.00 44.66 1.00 34.58
ATOM ATOM ATOM	829 830 831	N CA C	GLY A GLY A	415	32.610 34.002	22.195 22.657	42.395 41.995	1.00 35.34 1.00 36.70
MOTA MOTA	832 833	O N	GLY A	416	34.711 34.448	22.005	41.201 42.442	1.00 32.74 1.00 35.48
ATOM ATOM ATOM	834 835 836	CA C O	LYS A	416	35.776 36.869 38.023	24.340 23.525 23.520	42.108 42.794 42.370	1.00 35.85 1.00 37.60 1.00 35.22
MOTA MOTA	837 838	CB CG	LYS A	416 416	35.874 34.861	25.827 26.691	42.441 41.670	1.00 38.97 1.00 47.16
ATOM ATOM	839 840	CD CE	LYS A		34.985 33.891	28.160 29.049	42.065 41.509	1.00 52.82 1.00 54.67

ATOM	841 NZ LYS A 416	34.253 36.549	29.728 22.700	40.235 43.777	1.00 61.17 1.00 37.57
MOTA MOTA	842 N CYS A 417 843 CA CYS A 417	37.456	21.852 20.726	44.507 43.662	1.00 39.44
ATOM ATOM	844 C CYS A 417 845 O CYS A 417	38.026 39.158	20.251	43.845	1.00 40.72
ATOM	846 CB CYS A 417 847 SG CYS A 417	36.732 35.889	21.280 22.509	45.758 46.822	1.00 41.41 1.00 49.13
ATOM ATOM	847 SG CYS A 417 848 N VAL A 418	37.259	20.203	42.698	1.00 36.06
ATOM	849 CA VAL A 418	37.639	19.067 19.509	41.878 40.426	1.00 31.96 1.00 29.98
MOTA MOTA	850 C VAL A 418 851 O VAL A 418	37.823 36.963	20.136	39.835	1.00 29.54
ATOM	852 CB VAL A 418	36.607	17.916	41.954	1.00 24.72 1.00 28.34
ATOM ATOM	853 CG1 VAL A 418 854 CG2 VAL A 418	37.056 36.491	16.721 17.385	41.120 43.376	1.00 27.69
MOTA	855 N GLU A 419	38.996	19.260	39.852	1.00 30.53 1.00 27.70
ATOM ATOM	856 CA GLU A 419 857 C GLU A 419	39.222 38.127	19.705 19.138	38.486 37.565	1.00 28.75
MOTA	858 O GLU A 419	37.973	17.920	37.644 38.008	1.00 25.87 1.00 32.23
MOTA MOTA	859 CB GLU A 419 860 CG GLU A 419	40.567 40.880	19.171 19.646	36.586	1.00 40.70
MOTA	861 CD GLU A 419	42.378	19.766	36.390 37.319	1.00 49.13 1.00 54.26
ATOM ATOM	862 OE1 GLU A 419 863 OE2 GLU A 419	43.197 42.768	19.569 20.087	35.253	1.00 53.59
MOTA	864 N GLY A 420	37.466	19.950 19.450	36.778 35.807	1.00 31.18 1.00 27.93
ATOM ATOM	865 CA GLY A 420 866 C GLY A 420	36.492 35.122	19.450	36.355	1.00 33.09
ATOM	867 O GLY A 420	34.249	18.794	35.504 37.666	1.00 28.63 1.00 24.94
ATOM ATOM	868 N ILE A 421 869 CA ILE A 421	34.902 33.550	19.073 18.669	38.126	1.00 29.80
ATOM	870 C ILE A 421	32.517	19.771 19.623	38.086 38.123	1.00 28.97 1.00 25.14
ATOM ATOM	871 O ILE A 421 872 CB ILE A 421	31.279 33.628	19.023	39.500	1.00 27.62
MOTA	873 CG1 ILE A 421	32.670 33.307	16.788 19.021	39.594 40.589	1.00 24.09. 1.00 25.66
MOTA MOTA	874 CG2 ILE A 421 875 CD1 ILE A 421	33.307	16.062	40.920	1.00 26.64
MOTA	876 N LEU A 422	32.974 32.064	21.033 22.151	38.058 37.994	1.00 29.20 1.00 29.02
ATOM ATOM	877 CA LEU A 422 878 C LEU A 422	31.130	22.047	36.786	1.00 28.10
MOTA	879 O LEU A 422	29.936 32.832	22.370 23.474	36.938 37.990	1.00 26.46 1.00 34.57
MOTA MOTA	880 CB LEU A 422 881 CG LEU A 422	32.019	24.681	38.416	1.00 40.29
ATOM	882 CD1 LEU A 422	31.516 32.838	24.495 25.975	39.849 38.252	1.00 31.88 1.00 39.46
ATOM ATOM	883 CD2 LEU A 422 884 N GLU A 423	31.671	21.647	35.639	1.00 25.58
MOTA	885 CA GLU A 423 886 C GLU A 423	30.835 29.725	21.486 20.452	34.431 34.679	1.00 29.62 1.00 28.25
MOTA MOTA	887 O GLU A 423	28.595	20.664	34.252	1.00 27.19
ATOM	888 CB GLU A 423 889 CG GLU A 423	31.726 31.029	20.974 20.644	33.267 31.973	1.00 34.04 1.00 44.60
ATOM ATOM	890 CD GLU A 423	31.782	19.973	30.850	1.00 50.42 1.00 51.43
ATOM ATOM	891 OE1 GLU A 423 892 OE2 GLU A 423	32.943 31.182	19.506 19.846	30.965 29.747	1.00 51.43
MOTA	893 N ILE A 424	30.100	19.371	35.348	1.00 22.70 1.00 20.28
ATOM ATOM	894 CA ILE A 424 895 C ILE A 424	29.183 28.161	18.289 18.831	35.705 36.706	1.00 20.28
MOTA	896 O ILE A 424	26.968	18.612	36.533 36.296	1.00 18.93 1.00 20.86
MOTA MOTA	897 CB ILE A 424 898 CG1 ILE A 424	29.908 31.091	17.079 16.538	35.477	1.00 26.56
MOTA	899 CG2 ILE A 424	28.909	15.958 16.382	36.559 34.004	1.00 19.58 1.00 32.30
MOTA MOTA	900 CD1 ILE A 424 901 N PHE A 425	30.837 28.572	19.625	37.705	1.00 21.17
MOTA	902 CA PHE A 425	27.563 26.562	20.165 21.060	38.618 37.921	1.00 22.12 1.00 23.84
MOTA MOTA	904 O PHE A 425	25.358	21.088	38.232	1.00 20.50
ATOM	905 CB PHE A 425 906 CG PHE A 425	28.265 28.866	20.943 20.061	39.744 40.816	
MOTA MOTA	907 CD1 PHE A 425	28.974	18.689	40.724	1.00 20.45
MOTA	908 CD2 PHE A 425 909 CE1 PHE A 425	29.312 29.536	20.649 17.906	41.986 41.701	
ATOM ATOM	910 CE2 PHE A 425	29.849	19.888	42.999	1.00 26.28
ATOM ATOM	911 CZ PHE A 425 912 N ASP A 426	29.958 27.088	18.527 21.901		1.00 24.52
MOTA	913 CA ASP A 426	26.215	22.841	36.274	1.00 24.95
ATOM ATOM	914 C ASP A 426 915 O ASP A 426	25.206 24.035	22.490	35.318	1.00 26.21
MOTA	916 CB ASP A 426	27.115 27.712			
MOTA	917 CG ASP A 426	21.112	24.073		

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	999999999999999999999999999999999999999	ON COOCCEC A COOCCEC NO COOCN		427777778888889999999900001111111222223333334444344344335555555555	27.244 28.7653 22.6.7653 22.6.7653 22.6.7653 22.6.7653 22.6.7653 22.6.7653 22.6.7653 22.6.7653 22.6.7653 22.6.6877 23.6687 23.7687 23.7687 23.7687 23.7687 23.7687 23.7687 23.6687 23.7687 23	25.431 20.1771 19.5771 19.5772 118.4661 119.5773 119.5773 119.5773 118.4661 118.4567 118.4567 118.4561 118.4567 118.4561 1	33.4.51188255222293967785188888333333333333333333333333333333	1.00 32.79 1.00 32.76 1.00 22.59 1.00 23.55 1.00 23.55 1.00 22.77 1.00 22.13 1.00 23.77 1.00 39.26 1.00 33.49 1.00 41.30 1.00 18.69 1.00 18.69 1.00 22.36 1.00 20.87 1.00 22.33 1.00 20.04 1.00 21.39 1.00 22.33 1.00 20.04 1.00 21.39 1.00 22.31 1.00 22.33 1.00 20.04 1.00 22.36 1.00 23.01 1.00 22.26 1.00 23.01 1.00 22.28 1.00 22.26 1.00 23.01 1.00 22.30 1.00 21.68 1.00 22.30 1.00 21.68 1.00 22.30 1.00 21.68 1.00 22.31 1.00 22.31 1.00 22.31 1.00 22.31 1.00 23.81 1.00 22.31 1.00 22.31 1.00 23.81 1.00 22.31 1.00 23.81 1.00 23.81 1.00 23.81 1.00 24.78 1.00 29.98 1.00 29.98 1.00 29.98 1.00 29.98 1.00 29.98 1.00 29.38
ATOM ATOM ATOM ATOM ATOM ATOM	978 979 980 981 982 983	NH1 NH2 N CA C O CB CG CD1 CD2 CE1	ARG A ARG A PHE A PHE A PHE A	434 434 435 435 435 435 435 435 435 436 436 436	10.399 9.588 13.341 12.293 11.524 10.294	21.741 23.206 20.066 19.277 20.205 20.007	29.673 31.266 35.543 36.179 37.144 37.311	1.00 57.71 1.00 58.73 1.00 22.36 1.00 25.31 1.00 22.12 1.00 24.29

ATOM	995	CB ARG A 436	12.368	22.967	39.489	1.00 23.65
ATOM MOTA	996 997	CG ARG A 436 CD ARG A 436	11.670 12.636	23.942 25.141	40.483 40.739	1.00 29.31 1.00 30.70
MOTA	998	NE ARG A 436	13.845 15.097	24.503 24.584	41.263 40.859	1.00 34.92 1.00 36.96
MOTA MOTA	999 1000	CZ ARG A 436 NH1 ARG A 436	15.522	25.354	39.866	1.00 32.94
MOTA MOTA	1001 1002	NH2 ARG A 436 N GLU A 437	15.982 10.904	23.795 23.400	41.483 36.792	1.00 34.07 1.00 25.27
MOTA	1003	CA GLU A 437	10.005 8.817	24.217 23.413	35.935 35.448	1.00 32.74 1.00 32.08
MOTA MOTA	1004 1005	C GLU A 437 O GLU A 437	7.668	23.875	35.338	1.00 27.72
MOTA MOTA	1006 1007	CB GLU A 437 CG GLU A 437	10.767 11.831	24.809 25.799	34.765 35.161	1.00 33.92 1.00 40.07
MOTA	1008	CD GLU A 437	12.911 12.797	26.078 25.709	34.141 32.943	1.00 50.46 1.00 51.91
ATOM ATOM	1009 1010	OE1 GLU A 437 OE2 GLU A 437	13.916	26.722	34.561	1.00 53.95
MOTA MOTA	1011 1012	N LEU A 438 CA LEU A 438	9.020 7.921	22.146 21.269	35.090 34.681	1.00 27.00 1.00 27.50
ATOM	1013	C LEU A 438	7.122 6.119	20.813 20.121	35.882 35.729	1.00 23.14 1.00 25.79
MOTA MOTA	1014 1015	CB LEU A 438	8.482	19.998	33.993	1.00 31.41
MOTA MOTA	1016 1017	CG LEU A 438 CD1 LEU A 438	8.842 9.491	20.132 18.860	32.526 31.987	1.00 40.32 1.00 41.08
MOTA	1018	CD2 LEU A 438	7.614 7.498	20.452 21.129	31.675 37.130	1.00 39.10 1.00 24.41
MOTA MOTA	1019 1020	N LYS A 439 CA LYS A 439	6.850	20.706	38.331	1.00 25.43
ATOM ATOM	1021 1022	C LYS A 439 O LYS A 439	6.634 5.572	19.197 18.619	38.406 38.637	1.00 27.06 1.00 24.32
ATOM	1023	CB LYS A 439	5.500 5.617	21.405 22.924	38.605 38.646	1.00 33.10 1.00 33.57
MOTA MOTA	$\frac{1024}{1025}$	CG LYS A 439 CD LYS A 439	4.307	23.503	39.237	1.00 42.76
ATOM ATOM	1026 1027	CE LYS A 439 NZ LYS A 439	4.111 2.797	24.919 25.501	38.704 39.101	1.00 47.35 1.00 53.11
ATOM ATOM	1028 1029	N LEU A 440 CA LEU A 440	7.713 7.745	18.479 17.019	38.105 38.154	1.00 22.41 1.00 19.51
MOTA	1030	C LEU A 440	7.205 7.514	16.500 17.037	39.479 40.524	1.00 20.02 1.00 20.61
MOTA MOTA	1031 1032	O LEU A 440 CB LEU A 440	9.257	16.635	38.077	1.00 19.19
MOTA MOTA	1033 1034	CG LEU A 440 CD1 LEU A 440	9.491 8.999	15.126 14.476	38.152 36.869	1.00 23.27 1.00 20.04
MOTA	1035 1036	CD2 LEU A 440	. 10.973 6.261	14.766 15.572	38.354 39.391	1.00 23.57 1.00 21.24
MOTA MOTA	1037	CA GLN A 441	5.631	14.957	40.541	1.00 27.68 1.00 25.36
MOTA MOTA	1038 1039	C GLN A 441 O GLN A 441	6.343 6.956	13.693 12.969	40.980 40.193	1.00 24.49
MOTA MOTA	1040 1041	CB GLN A 441 CG GLN A 441	4.168 3.538	14.650 16.013	40.088 39.645	1.00 26.49 1.00 27.50
ATOM	1042	CD GLN A 441	3.371	16.910	40.870	1.00 38.48 1.00 44.82
ATOM ATOM	$1043 \\ 1044$	OE1 GLN A 441 NE2 GLN A 441	2.720 3.926	16.500 18.107	41.851	1.00 40.95
ATOM ATOM	1045 1046	N HIS A 442 CA HIS A 442	6.263 6.911	13.394 12.181	42.274 42.787	1.00 26.03 1.00 26.55
ATOM	1047	C HIS A 442	6.558 7.472	10.937 10.187	42.009 41.610	1.00 24.66 1.00 23.31
ATOM ATOM	1048 1049	CB HIS A 442	6.603	12.052	44.276	1.00 27.31
MOTA MOTA	1050 1051	CG HIS A 442 ND1 HIS A 442	7.278 8.666	10.914 10.898	44.955 45.111	1.00 28.31 1.00 35.26
MOTA	1052 1053	CD2 HIS A 442 CE1 HIS A 442	6.817 9.004	9.788 9.810	45.551 45.796	1.00 27.34 1.00 30.99
MOTA MOTA	1054	NE2 HIS A 442	7.915	9.118 10.626	46.071 41.696	1.00 34.85 1.00 22.61
MOTA MOTA	1055 1056	N LYS A 443 CA LYS A 443	5.288 5.004	9.421	40.939	1.00 22.02
MOTA MOTA	1057 1058	C LYS A 443 O LYS A 443	5.508 5.660	9.465 8.400	39.490 38.883	1.00 20.78 1.00 21.28
MOTA	1059	CB LYS A 443	3.494 3.045	9.093 8.904	40.933 42.433	1.00 25.46 1.00 29.15
MOTA ATOM	1060 1061	CG LYS A 443 CD LYS A 443	1.527	8.662	42.419	1.00 35.81
MOTA MOTA	1062 1063	CE LYS A 443 NZ LYS A 443	0.973 -0.512	8.749 8.923	43.842 43.885	1.00 50.19 1.00 49.05
MOTA	1064	N GLU A 444 CA GLU A 444	5.621 6.194	10.629 10.712	38.862 37.520	1.00 21.19 1.00 21.16
ATOM ATOM	1065 1066	C GLU A 444	7.704	10.362	37.666 36.854	1.00 19.76
ATOM ATOM	1067 1068	O GLU A 444 CB GLU A 444	8.215 6.115	12.170	37.043	1.00 23.14
ATOM ATOM	1069 1070	CG GLU A 444	4.686 4.491		36.334	1.00 24.40
MOTA	1071		5.237			1.00 24.79

*								
ATOM	1072	OE2	GLU A 444		3.508	14.272	35.614	1.00 27.56
ATOM	1073	N	TYR A 445		8.319	10.868	38.714	1.00 19.97
ATOM	1074	CA	TYR A 445		9.741	10.551	38.980	1.00 22.26
ATOM	1075	C	TYR A 445		9.921	9.048	39.128	1.00 19.04
ATOM	1076	ŏ	TYR A 445		10.875	8.469	38.622	1.00 20.97
ATOM	1077	CB	TYR A 445		10.224	11.291	40.206	1.00 20.96
ATOM	1078	CG	TYR A 445		11.366	10.659	40.969	1.00 24.17
	1079	CD1	TYR A 445		12.643	10.727	40.420	1.00 26.90
ATOM	1080	CD2	TYR A 445		11.166	10.029	42.192	1.00 22.07
ATOM	1081	CE1	TYR A 445		13.727	10.156	41.087	1.00 22.98
MOTA	1082	CE2	TYR A 445		12.249	9.453	42.829	1.00 26.07
MOTA		CZ	TYR A 445		13.491	9.528	42.285	1.00 25.04
ATOM	1083 1084	OH	TYR A 445		14.586	8.970	42.950	1.00 33.42
ATOM	1084	N	LEU A 446		9.105	8.389	39.995	1.00 18.03
ATOM	1085	CA	LEU A 446		9.240	6.938	40.102	1.00 24.19
MOTA MOTA	1087	C	LEU A 446		9.232	6.239	38.755	1.00 18.83
ATOM	1088	Ö	LEU A 446		10.038	5.315	38.475	1.00 20.62
ATOM	1089	CB	LEU A 446		8.090	6.364	40.975	1.00 23.00
ATOM	1090	CG	LEU A 446		8.104	7.007	42.394	1.00 27.50
ATOM	1091		LEU A 446		6.864	6.568	43.165	1.00 30.48
ATOM	1092		LEU A 446		9.360	6.584	43.147	1.00 27.81
ATOM	1093	N	CYS A 447		8.256	6.568	37.863	1.00 19.93
ATOM	1094	CA	CYS A 447		8.172	5.920	36.591	1.00 21.27
ATOM	1095	C	CYS A 447		9.414	6.235	35.722	1.00 18.48
ATOM	1096	ō	CYS A 447		9.908	5.341	35.061	1.00 19.17
ATOM	1097	CB	CYS A 447		6.956	6.313	35.775	1.00 20.29
ATOM	1098	SG	CYS A 447		5.415	5.811	36.632	1.00 21.69
ATOM	1099	N	VAL A 448		9.811	7.509	35.655	1.00 18.45
MOTA	1100	CA	VAL A 448		10.988	7.806	34.826	1.00 20.08
ATOM	1101	C	VAL A 448		12.245	7.095	35.280	1.00 21.79
MOTA	1102	0	VAL A 448		13.002	6.560	34.466	1.00 19.53
MOTA	1103	CB	VAL A 448		11.152	9.358	34.853	1.00 24.07
MOTA	1104	CG1	VAL A 448		12.507	9.721	34.360	1.00 28.67
MOTA	1105	CG2			10.025	9.856	33.907	1.00 29.43 1.00 18.71
MOTA	1106	N	LYS A 449		12.452	7.021	36.602 37.101	1.00 13.71
MOTA	1107	CA	LYS A 449		13.626	6.290	36.649	1.00 23.94
MOTA	1108	C	LYS A 449		13.652	4.857 4.251	36.178	1.00 18.35
ATOM	1109	0	LYS A 449		14.646	6.454	38.640	1.00 21.62
ATOM	1110	CB	LYS A 449		13.698 15.080	5.973	39.135	1.00 23.58
MOTA	1111	CG	LYS A 449		15.285	6.410	40.580	1.00 26.52
MOTA	1112	CD	LYS A 449 LYS A 449		14.188	5.858	41.501	1.00 25.87
MOTA	1113	CE	LYS A 449		14.611	5.765	42.945	1.00 26.92
ATOM	1114	NZ N	ALA A 450		12.478	4.190	36.703	1.00 18.50
MOTA	1115 1116	CA	ALA A 450		12.323	2.831	36.260	1.00 21.41
ATOM ATOM	1117	C	ALA A 450		12.563	2.711	34.783	1.00 20.13
ATOM	1118	ŏ	ALA A 450		13.206	1.738	34.329	1.00 18.60
ATOM	1119	ČВ	ALA A 450		10.985	2.198	36.684	1.00 20.44
ATOM	1120	N	MET A 451	-	12.139	3.721	33.968	1.00 18.77
ATOM	1121	CA	MET A 451		12.358	3.655	32.570	1.00 18.14
ATOM	1122	C	MET A 451		13.877	3.727	32.260	1.00 17.57
ATOM	1123	0	MET A 451		14.311	3.045	31.322	1.00 20.73
MOTA	1124	CB	MET A 451		11.633	4.842	31.842	1.00 21.77
ATOM	1125	CG	MET A 451		10.131	4.584	32.084	1.00 27.69 1.00 34.64
MOTA	1126	SD	MET A 451		9.016	5.929	31.603	1.00 35.01
ATOM	1127	CE	MET A 451		9.857	6.385 4.498	30.106 33.024	1.00 35.01
ATOM	1128	N	ILE A 452		14.588 16.037	4.498	32.828	1.00 17.08
ATOM	1129	CA	ILE A 452 ILE A 452		16.654	3.246	32.962	1.00 20.78
MOTA	1130	C	ILE A 452		17.508	2.878	32.158	1.00 19.75
ATOM ATOM	1131 1132	O CB	ILE A 452		16.625	5.638	33.802	1.00 19.19
ATOM	1133	CG:			16.292	7.107	33.388	1.00 17.81
ATOM	1134	CG2			18.162	5.500	33.943	1.00 20.76
ATOM	1135	CD			16.477	8.045	34.585	1.00 21.82
ATOM	1136	N	LEU A 453		16.259	2.506	33.992	1.00 19.70
ATOM	1137	CA			16.809	1.164	34.201	1.00 21.38
ATOM	1138	C	LEU A 453		16.452	0.220	33.063	1.00 22.74
MOTA	1139	0	LEU A 453	1	17.339	-0.447	32.508	1.00 23.04
MOTA	1140	CB	LEU A 453		16.272	0.592	35.526	1.00 20.23
ATOM	1141	CG	LEU A 453		16.436		35.734	1.00 23.99
MOTA	1142	CD:	1 LEU A 453	}	17.861		35.991	1.00 24.30 1.00 30.09
ATOM	1143		2 LEU A 453		15.585			
ATOM	1144	N	LEU A 454		15.173		32.658 31.599	
MOTA	1145	CA	LEU A 454	k 1	14.763 15.129			
MOTA	1146	C	LEU A 454 LEU A 454		15.129			
ATOM ATOM	1147 1148				13.230			
111 011	1140	22						

ATOM	1149	CG	LEU A	151	12.728	-1.319	33.126	1.00 24.00	
ATOM	1150		LEU A		11.213	-1.146	33.221	1.00 23.17	
ATOM	1151		LEU A		13.163	-2.762	33.390	1.00 24.11	
ATOM	1152	N	ASN A		15.439	0.969	29.912	1.00 20.57	
ATOM	1153	CA	ASN A		15.704	1.437	28.552	1.00 26.20	
MOTA	1154	C	ASN A	455	17.175	1.744	28.246	1.00 27.11	
MOTA	1155	0	ASN A	455	17.552	1.762	27.088	1.00 33.65	
MOTA	1156	CB	ASN A		14.976	2.798	28.371	1.00 31.10	
MOTA	1157	CG	ASN A		15.173	3.511	27.043	1.00 38.22	
MOTA	1158		ASN A		15.592	4.701	26.960	1.00 37.37	
ATOM	1159		ASN A		14.858	2.842	25.935	1.00 34.72	
MOTA	1160	N	SER A		17.997 19.382	1.775 2.119	29.258 29.231	1.00 30.24 1.00 36.00	
ATOM	1161 1162	CA C	SER A		20.311	1.573	28.153	1.00 36.83	
ATOM ATOM	1163	0	SER A		21.062	2.288	27.473	1.00 33.20	
ATOM	1164	СВ	SER A		20.038	1.689	30.582	1.00 39.77	
ATOM	1165	ŌĠ	SER A		19.588	0.394	31.044	1.00 37.99	
ATOM	1166	N	ALA A		20.318	0.245	28.192	1.00 35.54	
MOTA	1167	CA	ALA A		21.274	-0.464	27.352	1.00 42.47	
MOTA	1168	C	ALA A		21.142	-0.038	25.896	1.00 41.31	
MOTA	1169	0	ALA A		20.080	0.110	25.316	1.00 44.55	
ATOM	1170	CB	ALA A		21.235	-1.963	27.524	1.00 40.51	
ATOM	1171	N	MET A		22.311	0.172 0.547	25.315 23.933	1.00 46.24	
MOTA	1172	CA	MET A		22.508 22.623	-0.689	23.933	1.00 48.76 1.00 53.25	
ATOM ATOM	1173 1174	C O	MET A		22.945	-1.782	23.501	1.00 53.25	
ATOM	1175	CB	MET A		23.841	1 294	23.819	1.00 47.06	
ATOM	1176	CG	MET A		23.888	1.294	24.618	1.00 44.75	
MOTA	1177	SD	MET A		22.827	3.882	23.950	1.00 37.82	
	1178	CE	MET A		23.515	4.064	22.295	1.00 37.93	
ATOM	1179	N	ALA A	469		-14.119	24.676	1.00 60.19	
ATOM	1180	CA	ALA A	469		-14.316	25.833	1.00 60.72	
MOTA	1181	C	ALA A			-13.355	26.943	1.00 60.69	
ATOM	1182	0_	ALA A			-12.627	27.414	1.00 63.87	
ATOM	1183	CB	ALA A			-15.721	26.368	1.00 61.18	
ATOM	1184	N	SER A			-13.392 -12.423	27.347 28.348	1.00 59.40 1.00 57.12	
ATOM	1185 1186	CA C	SER A			-12.423	27.661	1.00 57.12	
ATOM ATOM	1187	Ö	SER A			-10.174	28.142	1.00 57.72	
ATOM	1188	СВ	SER A			-12.641	28.751	1.00 56.65	
ATOM	1189	OG	SER A			-11.735	29.774	1.00 53.66	
ATOM	1190	N	SER A			-10.972	26.450	1.00 60.93	
MOTA	1191	CA	SER A		13.866	-9.803	25.607	1.00 60.15	
MOTA	1192	С	SER A			-9.446	25.460	1.00 61.94	
MOTA	1193	0_	SER A			-8.291	25.674	1.00 59.07	
MOTA	1194	CB	SER A			-10.007	24.210	1.00 60.90	
ATOM	1195	OG	SER A			-9.104 -10.412	23.313 25.150	1.00 63.44 1.00 61.18	
ATOM ATOM	1196 1197	N CA	ARG A	472		-10.412		1.00 61.18	
ATOM	1198	C	ARG A		9.455	-9.705	26.351	1.00 55.71	
ATOM	1199	ŏ	ARG A		8.492	-8.942	26.430	1.00 55.98	
ATOM	1200	CB	ARG A			-11.346	24.439	1.00 66.43	
ATOM	1201	CG	ARG A		7.896	-11.320	24.439	1.00 71.44	
ATOM	1202	CD	ARG A	472		-12.571	23.765	1.00 75.25	
ATOM	1203	NE	ARG A			-13.690	23.790	1.00 77.23	
MOTA	1204	CZ	ARG A			-14.781	23.045	1.00 79.57	
ATOM	1205		ARG A			-14.977	22.145	1.00 80.41	
ATOM	1206		ARG A LYS A			-15.705 -10.212	23.192 27.461	1.00 79.36 1.00 52.42	
ATOM ATOM	1207 1208	N CA	LYS A		9.497	-9.883	28.804	1.00 52.42	
ATOM	1209	C	LYS A		9.945	-8.463	29.166	1.00 48.89	
ATOM	1210	Ö	LYS A		9.187	-7.725	29.794	1.00 51.86	
ATOM	1211	CB	LYS A			-10.914	29.790	1.00 56.33	
MOTA	1212	CG	LYS A	473	8.988	-11.534	30.696	1.00 59.83	
ATOM	1213	CD	LYS A			-12.925	31.140	1.00 61.94	
ATOM	1214	CE	LYS A			-13.586	32.024	1.00 63.15	
ATOM	1215	NZ	LYS A			-14.867	32.606	1.00 65.28	
MOTA	1216	N	LEU A		11.144	-8.065 -6.734	28.738	1.00 45.57 1.00 43.81	
ATOM	1217 1218	CA	LEU A		11.679 10.823	-6.734 -5.675	28.989 28.309	1.00 45.81	
ATOM ATOM	1218	C O	LEU A		10.823	-3.675 -4.751	28.917	1.00 40.26	
ATOM	1220	CB	LEU A		13.135	-6.592	28.503	1.00 42.11	
ATOM	1221	CG	LEU A		13.753	-5.187	28.638	1.00 39.15	
ATOM	1222	CD1	LEU A	474	13.670	-4.693	30.088	1.00 34.72	
MOTA	1223		LEU A		15.201		28.185	1.00 34.37	
ATOM	1224	N	ALA A		10.584		27.004	1.00 42.52	
ATOM	1225	CA	ALA A	475	9.787	-4.953	26.164	1.00 41.94	

ATOM ATOM	1227	C ALA A 475 O ALA A 475	,	8.452 7.891	-4.581 -3.490	26.793 26.828 24.884	1.00 41.48 1.00 45.13 1.00 41.45
MOTA MOTA MOTA	1228 1229 1230	CB ALA A 475 N HIS A 476 CA HIS A 476	;	9.517 7.859 6.609	-5.761 -5.612 -5.656	27.354 28.053	1.00 44.24 1.00 48.12 1.00 42.60
ATOM ATOM ATOM	1231 1232 1233	C HIS A 476 O HIS A 476 CB HIS A 476	5	6.640 5.672 6.243	-4.990 -4.359 -7.140	29.425 29.830 28.168	1.00 42.00 1.00 39.37 1.00 54.04
ATOM ATOM	1234 1235	CG HIS A 470 ND1 HIS A 470	5	5.008 5.063	-7.310 -7.803	28.990	1.00 55.91 1.00 59.64
MOTA MOTA MOTA	1236 1237 1238	CD2 HIS A 470 CE1 HIS A 470 NE2 HIS A 470	5	3.716 3.835 2.996	-7.013 -7.821 -7.351	28.733 30.770 29.856	1.00 58.19 1.00 60.13 1.00 58.29
ATOM ATOM	1239 1240	N LEU A 47' CA LEU A 47'	7	7.757 7.937	-5.132 -4.489	30.124 31.425	1.00 41.27 1.00 38.48
MOTA MOTA	1241 1242	C LEU A 47	7	8.000 7.353	-2.966 -2.117	31.201 31.820 32.078	1.00 30.49 1.00 31.42 1.00 37.51
ATOM ATOM ATOM	1243 1244 1245	CB LEU A 47° CG LEU A 47° CD1 LEU A 47°	7	9.229 9.565 8.323	-4.994 -4.461 -4.147	33.471 34.302	1.00 37.31 1.00 44.59 1.00 42.81
MOTA MOTA	1246 1247	CD2 LEU A 47 N LEU A 47	7	10.487 8.786	-5.429 -2.632	34.227 30.194	1.00 40.95 1.00 31.48
ATOM ATOM	1248 1249	CA LEU A 47 C LEU A 47	3	8.993 7.676 7.328	-1.262 -0.674 0.441	29.749 29.290 29.722	1.00 33.28 1.00 33.35 1.00 30.92
ATOM ATOM ATOM	1250 1251 1252	O LEU A 47 CB LEU A 47 CG LEU A 47	3	10.130 10.375	-1.139 0.295	28.730 28.241	1.00 31.10 1.00 34.76
MOTA MOTA	1253 1254	CD1 LEU A 47 CD2 LEU A 47	В	10.866 11.333	1.210	29.382 27.084	1.00 32.74 1.00 33.23 1.00 34.95
ATOM ATOM ATOM	1255 1256 1257	N ASN A 47 CA ASN A 47 C ASN A 47	9	6.888 5.578 4.662	-1.392 -0.880 -0.638	28.480 28.099 29.299	1.00 35.98 1.00 28.84
ATOM ATOM	1258 1259	O ASN A 47 CB ASN A 47	9 9	3.970 4.908	0.359 -1.837	29.338 27.092	1.00 29.63 · 1.00 42.20
MOTA MOTA	1260 1261 1262	CG ASN A 47 OD1 ASN A 47 ND2 ASN A 47	9	5.611 5.951 5.801	-1.804 -0.721 -3.025	25.735 25.237 25.210	1.00 48.35 1.00 47.39 1.00 50.10
ATOM ATOM ATOM	1263 1264	N ALA A 48 CA ALA A 48	0 0	4.651 3.829	-1.498 -1.276	30.311 31.503	1.00 33.47 1.00 30.90
MOTA MOTA	1265 1266	C ALA A 48 O ALA A 48	0	4.228	-0.030 0.665 -2.526	32.259 32.801 32.390	1.00 23.64 1.00 26.15 1.00 34.69
ATOM ATOM ATOM	1267 1268 1269	CB ALA A 48 N VAL A 48 CA VAL A 48	1	3.908 5.553 5.960	0.298	32.353 33.122	1.00 23.24 1.00 22.74
MOTA MOTA	1270 1271	C VAL A 48 O VAL A 48	1 1	5.517 5.153	2.722 3.729	32.351 32.942 33.436	1.00 18.06 1.00 26.87 1.00 27.05
ATOM ATOM ATOM	1272 1273 1274	CB VAL A 48 CG1 VAL A 48 CG2 VAL A 48	1	7.469 7.838 7.910	1.529 2.847 0.314	34.155 34.266	1.00 23.49 1.00 28.60
ATOM ATOM	1275 1276	N THR A 48	2	5.655 5.220	2.689 3.783	31.030 30.154	1.00 23.57 1.00 26.39
MOTA MOTA MOTA	1277 1278 1279	C THR A 48 O THR A 48 CB THR A 48	2	3.721 3.225 5.588	4.017 5.112 3.436	30.327 30.645 28.695	1.00 22.53 1.00 23.67 1.00 31.20
ATOM ATOM	1280 1281	OG1 THR A 48 CG2 THR A 48	2	6.97 4 5.230	3.215 4.522	28.498 27.698	1.00 32.83 1.00 33.29
ATOM ATOM	1282 1283 1284	N ASP A 48 CA ASP A 48 C ASP A 48	3	2.917 1.471 1.177	2.922 3.068 3.699	30.355 30.599 31.933	1.00 27.94 1.00 29.23 1.00 25.55
ATOM ATOM ATOM	1285 1286	O ASP A 48 CB ASP A 48	13 13	0.289	4.539 1.742	32.087 30.578	1.00 31.75 1.00 33.31
MOTA MOTA	1287 1288	CG ASP A 48 OD1 ASP A 48 OD2 ASP A 48	33	0.420 0.338 0.243	1.189 1.935 -0.048	29.200 28.199 29.064	1.00 37.11 1.00 38.37 1.00 40.00
ATOM ATOM ATOM	1289 1290 1291	N ALA A 4	34	1.984 1.859	3.364 3.856	32.957 34.306	1.00 25.28 1.00 23.57
MOTA MOTA	1292 1293	C ALA A 4	34	2.129 1.476 2.811	5.346 6.126 3.100	34.356 35.054 35.251	1.00 22.08 1.00 26.22 1.00 22.07
ATOM ATOM ATOM	1294 1295 1296	CB ALA A 4 N LEU A 4 CA LEU A 4	35	3.192 3.525	5.769 7.206	33.625 33.576	1.00 26.30 1.00 20.03
ATOM ATOM	1297 1298	C LEU A 4 O LEU A 4	35 35	2.364 1.940 4.842	7.896 8.956 7.395	32.849 33.304 32.776	
ATOM ATOM ATOM	1299 1300 1301	CB LEU A 4 CG LEU A 4 CD1 LEU A 4	35	5.232 5.387	8.863 9.644	32.522 33.822	1.00 21.92 1.00 23.10
ATOM	1302	CD2 LEU A 4	35	6.554	8.878	31.721	1.00 22.61

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MOTA	1303		VAL A 486		1.882 0.750	7.319 7.946	31.775 31.037	1.00 27.15 1.00 27.86
MOTA	1304 1305		VAL A 486 VAL A 486		-0.459	8.062	31.975	1.00 27.38
ATOM ATOM	1305		VAL A 486		-1.137	9.081	32.037	1.00 30.67
ATOM	1307	CB	VAL A 486		0.450	7.134	29.781	1.00 31.08
MOTA	1308		VAL A 486		-0.889	7.515	29.131	1.00 34.82
MOTA	1309		VAL A 486		1.555	7.198	28.723	1.00 29.27 1.00 29.86
ATOM	1310	N	TRP A 487		-0.704 -1.813	7.032 7.029	32.786 33.747	1.00 29.86
ATOM ATOM	1311 1312	CA C	TRP A 487		-1.595	8.089	34.799	1.00 36.27
MOTA	1313	ŏ	TRP A 487		-2.490	8.869	35.094	1.00 33.38
MOTA	1314	CB	TRP A 487		-1.961	5.661	34.390	1.00 32.60
MOTA	1315	CG	TRP A 487		-2.952 -4.312	5.586 5.400	35.502 35.367	1.00 37.95 1.00 43.97
MOTA MOTA	1316 1317	CD1 CD2	TRP A 487		-2.695	5.681	36.900	1.00 35.97
ATOM	1318	NE1	TRP A 487		-4.915	5.354	36.603	1.00 37.38
ATOM	1319	CE2	TRP A 487		-3.942	5.503	37.560	1.00 41.60
ATOM	1320	CE3	TRP A 487		-1.551 -4.056	5.845 5.521	37.670 38.947	1.00 36.56 1.00 40.06
ATOM ATOM	1321 1322	CZ2 CZ3	TRP A 487		-1.675	5.863	39.047	1.00 42.43
ATOM	1323	CH2	TRP A 487		-2.925	5.715	39.689	1.00 39.24
MOTA	1324	N	VAL A 488		-0.324	8.225	35.293	1.00 33.25
MOTA	1325	CA	VAL A 488		-0.071	9.273 10.651	36.250 35.669	1.00 24.32 1.00 23.44
ATOM ATOM	1326 1327	0	VAL A 488 VAL A 488		-0.300 -0.775	11.526	36.380	1.00 28.37
ATOM	1328	CB	VAL A 488		1.404	9.226	36.805	1.00 25.91
ATOM	1329		VAL A 488		1.675	10.401	37.711	1.00 26.73
MOTA	1330	CG2	VAL A 488		1.628 0.120	7.908 10.908	37.545 34.411	1.00 26.12 1.00 24.14
MOTA	1331 1332	N CA	ILE A 489 ILE A 489		-0.044	12.233	33.849	1.00 21.86
ATOM ATOM	1333	C	ILE A 489		-1.572	12.521	33.604	1.00 24.17
MOTA	1334	ō	ILE A 489		-2.028	13.610	33.910	1.00 27.18
MOTA	1335	CB	ILE A 489		0.659 2.205	12.310 12.283	32.501 32.756	1.00 27.91 1.00 23.18
ATOM ATOM	1336 1337	CG1 CG2	ILE A 489 ILE A 489		0.349	13.603	31.762	1.00 24.36
ATOM	1338	CD1	ILE A 489		2.871	11.911	31.416	1.00 23.22
ATOM	1339	N	ALA A 490		-2.197	11.421	33.241	1.00 27.97
ATOM	1340	CA	ALA A 490		-3.661	11.609 12.018	32.971 34.168	1.00 38.05 1.00 40.03
ATOM	1341 1342	C O	ALA A 490 ALA A 490		-4.468 -5.461	12.758	34.028	1.00 44.53
MOTA MOTA	1343	CB	ALA A 490		-4.193	10.347	32.324	1.00 32.57
MOTA	1344	N	LYS A 491		-4.053	11.710	35.395	1.00 41.28
MOTA	1345	CA	LYS A 491		-4.770 -4.714	12.013 13.450	36.608 37.049	1.00 39.88 1.00 41.63
ATOM ATOM	1346 1347	C	LYS A 491 LYS A 491		-5.514	13.839	37.904	1.00 40.95
ATOM	1348	СB	LYS A 491		-4.423	10.983	37.665	1.00 46.07
MOTA	1349	CG	LYS A 491		-3.555	11.300	38.854	1.00 46.19 1.00 49.83
ATOM	1350	CD	LYS A 491 LYS A 491		-3.467 -2.668	10.033 10.278	39.711 40.973	1.00 53.59
ATOM ATOM	1351 1352	CE NZ	LYS A 491		-2.631	9.101	41.881	1.00 55.67
ATOM	1353	N	SER A 492		-3.923	14.308	36.410	1.00 34.55
ATOM	1354	CA	SER A 492		-3.912 -5.139	15.741 16.352	36.672 35.960	1.00 36.18 1.00 37.48
MOTA MOTA	1355 1356	С 0	SER A 492 SER A 492		-5.478	17.525	36.050	1.00 40.92
ATOM	1357	СB	SER A 492		-2.639	16.378	36.086	1.00 35.10
ATOM	1358	OG	SER A 492		-2.727	16.210	34.657	1.00 35.62 1.00 38.75
ATOM	1359 1360	N CA	GLY A 493 GLY A 493		-5.740 -6.895	15.560 15.878	35.084 34.283	1.00 42.90
MOTA MOTA	1361	CA	GLY A 493		-6.682	16.956	33.240	1.00 43.44
ATOM	1362	ŏ	GLY A 493		-7.654	17.652	32.910	1.00 40.48
ATOM	1363	N	ILE A 494		-5.456 -5.212	17.078 18.106	32.727 31.690	1.00 35.87 1.00 33.56
ATOM ATOM	1364 1365	CA C	ILE A 494 ILE A 494		-5.691	17.494	30.391	1.00 30.12
ATOM	1366	õ	ILE A 494		-5.950	16.286	30.309	1.00 32.80
ATOM	1367	CB	ILE A 494		-3.734	18.543	31.664	1.00 36.79 1.00 31.42
ATOM	1368	CG1			-2.877 -3.387	17.319 19.189	31.371 33.002	1.00 31.42
MOTA ATOM	1369 1370	CG2	2 ILE A 494 L ILE A 494		-1.378	17.458	31.570	1.00 31.81
ATOM	1371	N	SER A 495		-5.889	18.311	29.352	1.00 32.65
MOTA	1372	CA	SER A 495		-6.414	17.762	28.115 27.479	1.00 35.83 1.00 41.15
MOTA	1373 1374	С 0	SER A 495 SER A 495		-5.440 -4.258	16.781 16.704	27.857	1.00 35.53
MOTA MOTA	1374	CB	SER A 495		-6.712	18.859	27.106	1.00 39.81
ATOM	1376	OG	SER A 495		-5.497	19.492		
ATOM	1377	N	SER A 496		-6.019 -5.253	16.067 15.104		
ATOM ATOM	1378 1379	CA C	SER A 496 SER A 496	;	-3.233 -4.047	15.740		
AION	1313	_						

MOTA	1380 O SER A 496	-2.997 15.075 25.065 1.00 32.	27
MOTA	1381 CB SER A 496 1382 OG SER A 496	-6.165 14.425 24.705 1.00 45. -6.874 15.475 24.036 1.00 58.	
MOTA MOTA	1383 N GLN A 497	-4.163 16.920 24.486 1.00 33.	
MOTA MOTA	1384 CA GLN A 497 1385 C GLN A 497	-1.903 17.799 24.866 1.00 27.	01
ATOM	1386 O GLN A 497	-0.712 17.722 24.566 1.00 25.	
ATOM ATOM	1387 CB GLN A 497 1388 CG GLN A 497	-2.408 19.547 22.388 1.00 27.	55
ATOM	1389 CD GLN A 497	-1.449 20.438 23.130 1.00 34. -1.807 20.960 24.189 1.00 40.	
ATOM ATOM	1390 OE1 GLN A 497 1391 NE2 GLN A 497	-0.228 20.613 22.652 1.00 32.	44
MOTA	1392 N GLN A 498 1393 CA GLN A 498	-2.270 18.326 26.042 1.00 26. -1.342 18.677 27.107 1.00 28.	
ATOM ATOM	1394 C GLN A 498	-0.738 17.413 27.727 1.00 26.	58 30
ATOM ATOM	1395 O GLN A 498 1396 CB GLN A 498	-1.952 19.578 28.196 1.00 33.	52
MOTA	1397 CG GLN A 498	-2.140 21.027 27.725 1.00 38. -0.799 21.708 27.516 1.00 44.	
MOTA ATOM	1398 CD GLN A 498 1399 OE1 GLN A 498	-0.054 21.850 28.497 1.00 49.	.42
MOTA	1400 NE2 GLN A 498 1401 N GLN A 499	-0.496 22.141 26.294 1.00 39. -1.450 16.296 27.726 1.00 26.	
MOTA MOTA	1402 CA GLN A 499	-0.911 15.050 28.276 1.00 26.	.49
ATOM ATOM	1403 C GLN A 499 1404 O GLN A 499	0.242 14.556 27.407 1.00 31. 1.226 14.057 27.933 1.00 26.	
MOTA	1405 CB GLN A 499	-1.931 13.910 28.339 1.00 30	
MOTA ATOM	1406 CG GLN A 499 1407 CD GLN A 499	-3.974 12.950 29.393 1.00 41	.30
MOTA	1408 OE1 GLN A 499	-3.628 11.776 29.317 1.00 40 -5.267 13.267 29.460 1.00 41	
MOTA MOTA	1410 N SER A 500	0.064 14.631 26.086 1.00 25	.27
MOTA MOTA	1411 CA SER A 500 1412 C SER A 500	2.292 15.157 25.229 1.00 25	.24
MOTA	1413 O SER A 500	3.425 14.688 25.136 1.00 24	
ATOM ATOM	1414 CB SER A 500 1415 OG SER A 500	-0.409 13.240 23.513 1.00 34	.11
MOTA	1416 N MET A 501	2.048 16.461 25.413 1.00 24 3.145 17.410 25.539 1.00 25	.36 .98
ATOM ATOM	1418 C MET A 501	3.920 17.119 26.823 1.00 26	.81
ATOM ATOM	1419 O MET A 501 1420 CB MET A 501	5.158 17.203 26.791 1.00 23 2.697 18.890 25.502 1.00 30	.19 .80
ATOM	1421 CG MET A 501	3.552 19.758 24.600 1.00 46	
ATOM ATOM	1422 SD MET A 501 1423 CE MET A 501	2.464 18.152 22.499 1.00 52	.53
MOTA	1424 N ARG A 502 1425 CA ARG A 502	3.230 16.759 27.895 1.00 20 3.927 16.549 29.173 1.00 22	.36 .08
MOTA MOTA	1426 C ARG A 502	4.758 15.264 29.102 1.00 21	26
MOTA MOTA	1427 O ARG A 502 1428 CB ARG A 502	2.897 16.497 30.329 1.00 23	.98
MOTA	1429 CG ARG A 502	3.628 16.378 31.664 1.00 24 2.730 16.533 32.892 1.00 27	
MOTA ATOM	1430 CD ARG A 502 1431 NE ARG A 502	3.540 16.593 34.105 1.00 23	.61
ATOM ATOM	1432 CZ ARG A 502 1433 NH1 ARG A 502	4.211 17.635 34.552 1.00 22 4.895 17.470 35.711 1.00 26	5.82
MOTA	1434 NH2 ARG A 502	4.218 18.780 33.907 1.00 22 4.162 14.232 28.466 1.00 19	
MOTA MOTA	1435 N LEU A 503 1436 CA LEU A 503	4.925 12.986 28.284 1.00 21	L.30
ATOM	1437 C LEU A 503 1438 O LEU A 503	6.138 13.260 27.421 1.00 23 7.292 12.886 27.742 1.00 19	9.06
MOTA MOTA	1439 CB LEU A 503	3.966 11.989 27.615 1.00 25	5.98
MOTA MOTA	1440 CG LEU A 503 1441 CD1 LEU A 503	5.053 9.898 28.501 1.00 21	1.09
MOTA	1442 CD2 LEU A 503	3.433 9.776 26.604 1.00 23 5.963 14.019 26.321 1.00 18	3.95 3.94
MOTA MOTA	1444 CA ALA A 504	7.116 14.256 25.459 1.00 20	0.93
ATOM ATOM	1445 C ALA A 504 1446 O ALA A 504	9 386 14 873 26.026 1.00 23	2.41
ATOM	1447 CB ALA A 504	6.684 15.142 24.288 1.00 20 7.748 16.098 26.956 1.00 1	
ATOM ATOM	1448 N ASN A 505 1449 CA ASN A 505	8.708 16.944 27.653 1.00 2	4.23
MOTA	1450 C ASN A 505	9.551 16.177 28.690 1.00 2 10.755 16.445 28.839 1.00 2	2.02
ATOM ATOM	1452 CB ASN A 505	8.055 18.097 28.416 1.00 2	5.76
ATOM ATOM	1453 CG ASN A 505 1454 OD1 ASN A 505	8.741 19.470 26.630 1.00 3	8.16
MOTA	1455 ND2 ASN A 505	6.676 19.872 27.650 1.00 3 8.859 15.309 29.406 1.00 2	6.08 0.34
MOTA	1456 N LEU A 506		

MOTA MOTA	1457 1458	CA C	LEU A LEU A	506 506	9.589 10.539	14.516 13.552	30.450 29.784	1.00 20.82
ATOM ATOM	1459 1460	O CB	LEU A LEU A	506 506	11.696 8.592	13.419 13.707	30.231 31.278	1.00 21.17 1.00 19.79
ATOM ATOM	1461	CG CD1	LEU A	506	7.680 6.606	14.476 13.555	32.230 32.781 33.422	1.00 22.72 1.00 23.93 1.00 26.30
ATOM ATOM ATOM	1463 1464 1465	CD2 N CA	LEU A LEU A	507	8.442 10.084 10.988	15.065 12.890 11.929	28.683 28.063	1.00 28.30 1.00 19.88 1.00 21.64
ATOM ATOM	1466 1467	C	LEU A	507	12.076 13.121	12.613 11.940	27.268 27.163	1.00 22.05 1.00 25.18
ATOM ATOM	1468 1469	CB CG	LEU A LEU A	507	10.181 9.165	10.891	27.265 28.158	1.00 19.48 1.00 26.42
ATOM ATOM	1470 1471	CD1 CD2	LEU A	507	8.420 9.853	9.135 9.479 13.849	27.311 29.339 26.818	1.00 28.63 1.00 25.64 1.00 16.93
MOTA MOTA	1472 1473 1474	N CA C	MET A MET A	508	11.877 12.986 14.076	14.496 14.811	26.123 27.154	1.00 18.93 1.00 23.08 1.00 28.54
ATOM ATOM	1475 1476	O CB		508	15.265 12.603	14.820 15.865	26.855 25.438	1.00 23.86 1.00 26.46
ATOM ATOM	1477 1478	CG SD	MET A	508 508	12.016 11.715	15.450 17.040	24.036 23.204	1.00 23.87 1.00 27.80
ATOM ATOM	1479 1480	CE N	LEU A	509	10.678 13.694	17.924 15.107	24.359 28.395 29.477	1.00 30.56 1.00 25.05 1.00 27.05
ATOM ATOM ATOM	1481 1482 1483	CA C O	LEU A LEU A		14.653 15.476 16.562	15.377 14.184 14.328	29.885 30.484	1.00 27.03 1.00 22.15 1.00 26.84
ATOM ATOM	1484 1485	CB CG	LEU A	509	13.929 13.620	15.907 17.398	30.716 30.651	1.00 28.80 1.00 35.21
MOTA MOTA	1486 1487	CD2		509	12.905 14.902	17.767	31.920	1.00 32.29 1.00 36.14
MOTA MOTA	1488 1489 1490	N CA C	LEU A LEU A	510	15.101 15.847 17.152	12.954 11.731 11.661	29.602 29.817 29.004	1.00 22.10 1.00 31.30 1.00 27.86
ATOM ATOM ATOM	1491 1492	O CB	LEU A	510	18.184 15.009	11.107	29.461 29.533	1.00 25.83 1.00 32.50
MOTA MOTA	1493 1494	CG CD1	LEU A LEU A	510 510	14.041 14.036	10.070 8.558	30.659 30.650	1.00 37.86 1.00 33.60
ATOM ATOM	1495 1496	CD2 N	SER A	511	14.409 17.164 18.407	10.625 12.332 12.412	32.030 27.846 27.088	1.00 41.89 1.00 21.01 1.00 19.52
ATOM ATOM ATOM	1497 1498 1499	CA C O	SER A SER A SER A	511	19.356 20.578	13.350 13.174	27.853 27.756	1.00 20.33 1.00 19.80
ATOM ATOM	1500 1501	CB OG	SER A	511	18.054 17.353	13.094 12.110	25.749 24.988	1.00 21.91 1.00 27.19
ATOM ATOM	1502 1503	N CA	HIS A	512	18.820 19.675 20.310	14.337 15.265 14.488	28.598 29.350 30.520	1.00 17.00 1.00 17.20 1.00 18.30
ATOM ATOM ATOM	1504 1505 1506	C O CB	HIS A HIS A	512	21.462 18.901	14.726 16.482	30.320 30.897 29.781	1.00 18.30 1.00 18.47 1.00 22.31
ATOM ATOM	1507 1508	CG	HIS A	512	18.468 18.601	17.393 18.755	28.645 28.801	1.00 27.23 1.00 30.72
MOTA MOTA	1509 1510	CE1	HIS A	512	17.899 18.129	17.200	27.450 27.717	1.00 32.28 1.00 33.98 1.00 27.65
ATOM ATOM ATOM	1511 1512 1513	NE2 N CA	HIS A VAL A VAL A	513	17.705 19.477 19.990	18.450 13.666 12.851	26.873 31.181 32.290	1.00 27.03 1.00 18.12 1.00 22.72
ATOM ATOM	1514 1515	C O	VAL A	513	21.030 22.097	11.881 11.700	31.730 32.335	1.00 20.91 1.00 20.66
ATOM ATOM	1516 1517		VAL A	513	18.847 19.459	12.145 11.526	33.064 34.341 33.458	1.00 22.88 1.00 23.18 1.00 20.14
ATOM ATOM ATOM	1518 1519 1520	N CA	VAL A ARG A ARG A	514	17.778 20.876 21.899	13.131 11.298 10.441	30.545	1.00 19.00 1.00 20.34
ATOM ATOM	1521 1522	CO	ARG A	514 514	23.173 24.289	11.232 10.721	29.640 29.911	1.00 20.91 1.00 18.76
ATOM ATOM	1523 1524	CB	ARG A	514	21.354 22.254	9.808 8.874 7.479	28.623 27.840 28.524	1.00 18.63 1.00 22.80 1.00 30.40
ATOM ATOM ATOM	1525 1526 1527	CD NE CZ	ARG A	514	22.365 21.077 20.885	6.785 5.873	28.263 27.310	1.00 34.94 1.00 36.49
ATOM ATOM	1528 1529	NH1 NH2	ARG A	1 514 1 514	21.890 19.683	5.517 5.346	26.538 27.147	1.00 35.79 1.00 41.59
ATOM ATOM ATOM	1530 1531 1532	N CA C	HIS A	515	23.056 24.205 25.011	12.440 13.313 13.540	29.151 28.810 30.105	1.00 18.76 1.00 21.44 1.00 18.96
ATOM	1533	0	HIS A		26.244	13.432	30.147	1.00 17.34

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MOTA	1534	CB	HIS A 5	15 15	23.755 24.880	14.646 15.556	28.186 27.748	1.00 20.53 1.00 25.29
MOTA MOTA	1535 1536	CG ND1	HIS A 5		25.296	16.581	28.585	1.00 35.84
ATOM	1537	CD2		15	25.726	15.642	26.703	1.00 29.95
ATOM	1538		HIS A 5			17.249	28.046	1.00 32.66
MOTA	1539		HIS A 5	515		16.696 13.854	26.909 31.185	1.00 26.95 1.00 18.30
ATOM	1540	N	ALA A 5 ALA A 5		24.275 24.996	14.120	32.445	1.00 18.51
ATOM ATOM	1541 1542	CA C	ALA A 5		25.711	12.871	32.896	1.00 16.96
ATOM	1543	ŏ	ALA A 5		26.824	12.971	33.458	1.00 17.97
ATOM	1544	CB	ALA A 5		23.976	14.626	33.499	1.00 17.16
ATOM	1545	N	SER A 5	17	25.037 25.702	11.721 10.469	32.775 33.226	1.00 13.23 1.00 15.19
ATOM ATOM	1546 1547	CA C	SER A 5		26.931	10.196	32.386	1.00 19.61
ATOM	1548	Õ	SER A 5		27.959	9.748	32.898	1.00 16.73
MOTA	1549	CB	SER A 5		24.651	9.355	33.164	1.00 20.28 1.00 35.94
ATOM	1550 1551	OG	SER A 5		24.221 26.850	8.924 10.393	31.883 31.069	1.00 33.94
ATOM ATOM	1552	N CA	ASN A 5		28.059	10.099	30.252	1.00 17.67
MOTA	1553	C	ASN A 5	518	29.163	11.108	30.623	1.00 19.64
MOTA	1554	0	ASN A 5		30.335	10.742	30.682 28.774	1.00 18.53 1.00 19.79
ATOM	1555 1556	CB CG	ASN A 5		27.733 26.808	10.366 9.340	28.118	1.00 29.86
ATOM ATOM	1557		ASN A 5		26.142	9.822	27.189	1.00 31.32
ATOM	1558	ND2	ASN A 5		26.903	8.120	28.634	1.00 29.79
MOTA	1559	N	LYS A 5		28.774	12.388 13.324	30.869 31.222	1.00 18.99 1.00 19.79
ATOM	1560 1561	CA C	LYS A S		29.861 30.474	12.933	32.560	1.00 22.35
MOTA MOTA	1562	Ö	LYS A 5		31.692	13.041	32.810	1.00 19.90
ATOM	1563	CB	LYS A 5	519	29.351	14.774	31.166	1.00 20.32
ATOM	1564	CG		519	28.748	15.191 14.820	29.831 28.603	1.00 29.40 1.00 40.46
MOTA	1565 1566	CD CE	LYS A S		29.562 30.943	15.429	28.663	1.00 43.73
ATOM ATOM	1567	NZ	LYS A		30.945	16.821	29.190	1.00 52.15
MOTA	1568	N	GLY A	520	29.640	12.570	33.550	1.00 19.78
MOTA	1569	CA	GLY A		30.068 30.951	12.129 10.892	34.849 34.772	1.00 21.87 1.00 20.42
MOTA ATOM	1570 1571	C O	GLY A S	520 520	31.990	10.889	35.452	1.00 20.49
ATOM	1572	N	MET A	521	30.641	9.931	33.866	1.00 17.39
MOTA	1573	CA	MET A		31.494	8.751	33.761 33.132	1.00 20.77 1.00 22.09
ATOM	1574	C	MET A S		32.854 33.874	9.090 8.495	33.132	1.00 25.57
ATOM ATOM	1575 1576	O CB	MET A		30.859	7.661	32.894	1.00 21.70
ATOM	1577	CG	MET A	521	29.597	7.087	33.542	1.00 22.12
ATOM	1578	SD	MET A		29.941 30.966	6.202 4.858	35.059 34.483	1.00 25.78 1.00 34.57
MOTA MOTA	1579 1580	CE N	MET A GLU A	521 522	32.821	10.026	32.210	1.00 19.77
ATOM	1581	CA	GLU A		34.082	10.475	31.567	1.00 25.22
ATOM	1582	С	GLU A		34.992	11.125	32.617 32.674	1.00 27.04 1.00 25.63
ATOM	1583	O	GLU A GLU A		36.222 33.737	10.925 11.549	30.540	1.00 28.85
ATOM ATOM	1584 1585	CB CG	GLU A		34.963	11.924	29.709	1.00 38.45
ATOM	1586	CD	GLU A	522	34.586	12.775	28.502	1.00 42.28
ATOM	1587	OE1		522	33.522 35.398	13.439 12.792	28.455 27.558	1.00 42.42 1.00 44.02
ATOM ATOM	1588 1589	OE2 N	GLU A HIS A	523	34.365	11.986	33.411	1.00 25.50
ATOM	1590	CA	HIS A	523	35.072	12.655	34.496	1.00 25.58
MOTA	1591	C	HIS A	523	35.612	11.652	35.497 35.999	1.00 27.34 1.00 26.33
MOTA MOTA	1592 1593	O CB	HIS A HIS A		36.771 34.136	11.815 13.679	35.140	1.00 20.55
ATOM	1594	CG	HIS A	523	34.806	14.412	36.272	1.00 24.67
ATOM	1595	ND1	L HIS A	523	34.739	14.029	37.579	1.00 29.47
ATOM	1596	CD2	HIS A	523	35.574 35.458	15.543 14.901	36.198 38.312	1.00 29.20 1.00 29.69
MOTA MOTA	1597 1598		HIS A		35.456	15.828	37.492	1.00 28.98
ATOM	1599	N	LEU A	524	34.832	10.630	35.885	1.00 23.61
ATOM	1600	CA	LEU A	524	35.316	9.624 8.821	36.806 36.262	1.00 25.30 1.00 29.29
ATOM	1601	C	LEU A LEU A		36.493 37.517	8.821	36.202	1.00 25.59
ATOM ATOM	1602 1603	CB	LEU A		34.121	8.699	37.151	1.00 22.60
ATOM	1604	CG	LEU A	524	34.407	7.594	38.141	1.00 26.13 1.00 23.83
ATOM	1605		LEU A	524 524	35.007 33.118	8.077 6.810	39.469 38.416	1.00 23.83
ATOM ATOM	1606 1607	CD:	LEU A	525	36.388	8.450	34.978	1.00 26.41
ATOM	1608	CA	LEU A	525	37.508	7.752	34.317	1.00 29.31
MOTA	1609	C	LEU A		38.733	8.665 8.175	34.330 34.538	1.00 26.40 1.00 33.34
MOTA	1610	0	LEU A	343	39.855	0.1/3	0.4.	1.00 00.04

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ATOM	1611 CB LEU A 525		7.485	32.859	1.00 30.24
MOTA MOTA	1612 CG LEU A 525 1613 CD1 LEU A 525	38.603	6.885 5.515	32.008 32.560	1.00 35.53 1.00 33.00
ATOM ATOM	1614 CD2 LEU A 525 1615 N ASN A 526	37.813 38.585	6.926 9.964	30.556 34.173	1.00 38.35 1.00 28.04
ATOM	1616 CA ASN A 526		.0.879 .0.939	34.195 35.601	1.00 32.60 1.00 37.85
ATOM ATOM	1618 O ASN A 526	41.544 1	0.831	35.827 33.509	1.00 32.78 1.00 41.07
MOTA ATOM	1619 CB ASN A 526 1620 CG ASN A 526	39.453 1	2.184	31.989	1.00 49.96
ATOM ATOM	1621 OD1 ASN A 526 1622 ND2 ASN A 526		.1.382 L2.701	31.400 31.238	1.00 47.80 1.00 52.37
ATOM	1623 N MET A 527 1624 CA MET A 527		LO.912 LO.932	36.620 38.016	1.00 28.88 1.00 31.09
ATOM ATOM	1625 C MET A 527	40.665 41.583	9.681 9.730	38.371 39.228	1.00 29.41 1.00 31.63
MOTA MOTA	1627 CB MET A 527	38.737 1	11.111	38.996 39.050	1.00 30.94 1.00 32.25
MOTA MOTA	1628 CG MET A 527 1629 SD MET A 527	39.273	12.480	39.490	1.00 38.32
ATOM ATOM	1630 CE MET A 527 1631 N LYS A 528	39.552 1 40.260	14.517 8.580	37.876 37.788	1.00 42.34 1.00 29.65
MOTA	1632 CA LYS A 528	40.898 42.250	7.290 7.321	37.996 37.261	1.00 33.35 1.00 40.21
MOTA MOTA	1634 O LYS A 528	43.214	6.736 6.128	37.778 37.542	1.00 35.78 1.00 33.72
ATOM ATOM	1635 CB LYS A 528 1636 CG LYS A 528	40.042 40.665	4.749	37.628	1.00 43.74
ATOM ATOM	1637 CD LYS A 528 1638 CE LYS A 528	41.195 41.618	4.294 2.830	36.273 36.366	1.00 46.75 1.00 53.32
MOTA MOTA	1639 NZ LYS A 528 1640 N CYS A 529	41.249 42.290	2.097 7.989	35.117 36.107	1.00 59.40 1.00 36.42
ATOM	1641 CA CYS A 529 1642 C CYS A 529	43.556 44.505	8.114 9.085	35.386 36.089	1.00 45.49 1.00 44.41
MOTA	1643 O CYS A 529	45.739 43.361	8.956 8.551	35.943 33.933	1.00 46.54· 1.00 45.99
ATOM ATOM	1645 SG CYS A 529	42.538	7.282	32.929 36.840	1.00 54.11 1.00 41.40
MOTA MOTA	1646 N LYS A 530 1647 CA LYS A 530	44.865	10.985	37.583	1.00 42.22 1.00 41.34
ATOM ATOM	1648 C LYS A 530 1649 O LYS A 530	45.983	10.356 10.964	38.907 39.741	1.00 42.74
ATOM ATOM	1650 CB LYS A 530 1651 CG LYS A 530		12.315 13.248	37.843 36.639	1.00 47.78 1.00 54.93
MOTA	1652 CD LYS A 530 1653 CE LYS A 530		14.622 15.306	37.112 36.131	1.00 59.63 1.00 62.07
MOTA MOTA	1654 NZ LYS A 530		16.471 9.159	36.772 39.207	1.00 66.71 1.00 33.96
MOTA MOTA	1656 CA ASN A 531	45.071 44.447	8.329 8.962	40.356 41.597	1.00 36.95 1.00 37.21
MOTA MOTA	1657 C ASN A 531 1658 O ASN A 531	44.861	8.759	42.729 40.595	1.00 34.97
MOTA MOTA	1659 CB ASN A 531 1660 CG ASN A 531	46.555 46.755	8.010 6.889	41.590	1.00 42.51
ATOM ATOM	1661 OD1 ASN A 531 1662 ND2 ASN A 531	46.222 47.618	5.783 7.161	41.548 42.564	1.00 44.47 1.00 45.94
ATOM ATOM	1663 N VAL A 532 1664 CA VAL A 532	43.380 42.609	9.713 10.393	41.376 42.420	1.00 33.14 1.00 33.52
ATOM	1665 C VAL A 532 1666 O VAL A 532	41.657 41.314	9.407 9.513	43.078 44.269	1.00 30.82 1.00 32.78
MOTA MOTA	1667 CB VAL A 532	41.893 41.012	11.631 12.351	41.888 42.894	1.00 30.67 1.00 30.77
MOTA MOTA	1669 CG2 VAL A 532	42.905 41.163	12.624	41.305 42.334	1.00 33.95 1.00 28.16
MOTA MOTA	1670 N VAL A 533 1671 CA VAL A 533	40.301	7.405	42.880	1.00 28.57 1.00 30.48
MOTA MOTA	1672 C VAL A 533 1673 O VAL A 533	40.833 41.461	6.084 6.090	41.297	1.00 34.29
MOTA MOTA	1674 CB VAL A 533 1675 CG1 VAL A 533	38.796 38.190	7.497 8.771	43.058	1.00 26.23 1.00 25.81
ATOM	1676 CG2 VAL A 533	38.655 40.532	7.456 4.992		1.00 33.55
ATOM ATOM	1678 CA PRO A 534	40.998 40.315	3.686	42.641	1.00 34.79 1.00 40.51
ATOM ATOM	1680 O PRO A 534	40.942 40.796	2.279	40.685	1.00 40.19
ATOM ATOM	1682 CG PRO A 534	39.740	3.556 5.017	44.711	1.00 35.85
MOTA MOTA	1684 N VAL A 535	39.829 38.971	3.074	41.407	1.00 31.84
MOTA MOTA	1686 C VAL A 535	38.265 37.284	2.375	39.646	1.00 35.56
MOTA		36.844	4.334	40.129	, 1.00 32.00

	1.500	an	37 470	1.166	40.914	1.00 42.03
MOTA MOTA	1688 1689	CB VAL A 535 CG1 VAL A 535	37.472 38.378	0.016	41.335	1.00 42.03
ATOM	1690	CG2 VAL A 535	36.618	1.636	42.077	1.00 41.40
ATOM	1691	N TYR A 536	37.031	2.914	38.422	1.00 38.81
ATOM	1692	CA TYR A 536	36.127	3.630	37.526	1.00 37.76
MOTA	1693	C TYR A 536	34.753	2.987	37.622	1.00 33.11
ATOM	1694	O TYR A 536	33.713	3.680 3.510	37.734 36.113	1.00 30.18 1.00 39.43
ATOM	1695	CB TYR A 536 CG TYR A 536	36.730 35.776	3.844	34.993	1.00 35.43
MOTA MOTA	1696 1697	CD1 TYR A 536	35.249	5.129	34.853	1.00 40.40
MOTA	1698	CD2 TYR A 536	35.390	2.860	34.093	1.00 37.43
ATOM	1699	CE1 TYR A 536	34.367	5.418	33.812	1.00 37.67
MOTA	1700	CE2 TYR A 536	34.509	3.147	33.062 32.910	1.00 36.97 1.00 41.30
ATOM	1701	CZ TYR A 536 OH TYR A 536	34.025 33.141	4.430 4.693	32.910	1.00 41.30
ATOM ATOM	1702 1703	OH TYR A 536 N ASP A 537	34.752	1.656	37.547	1.00 28.09
ATOM	1704	CA ASP A 537	33.513	0.889	37.580	1.00 31.30
MOTA	1705	C ASP A 537	33.048	0.696	39.012	1.00 29.04
MOTA	1706	O ASP A 537	33.279	-0.344 -0.430	39.625 36.807	1.00 25.67 1.00 35.55
ATOM	1707 1708	CB ASP A 537 CG ASP A 537	33.576 32.198	-1.027	36.548	1.00 42.06
ATOM ATOM	1709	OD1 ASP A 537	31.230	-0.697	37.278	1.00 35.88
ATOM	1710	OD2 ASP A 537	32.045	-1.830	35.593	1.00 44.18
MOTA	1711	N LEU A 538	32.285	1.690	39.496	1.00 27.09
ATOM	1712	CA LEU A 538	31.736	1.612	40.853 41.053	1.00 25.60 1.00 23.74
MOTA	1713 1714	C LEU A 538 O LEU A 538	30.744 30.667	0.503 0.038	42.199	1.00 24.81
ATOM ATOM	1715	CB LEU A 538	31.116	2.942	41.272	1.00 24.14
ATOM	1716	CG LEU A 538	32.055	4.155	41.069	1.00 23.55
MOTA	1717	CD1 LEU A 538	31.387	5.388	41.650	1.00 22.07
MOTA	1718	CD2 LEU A 538 N LEU A 539	33.417 29.991	3.877 0.086	41.706 40.044	1.00 25.28 1.00 24.40
MOTA MOTA	1719 1720	N LEU A 539 CA LEU A 539	29.082	-1.035	40.197	1.00 25.24
ATOM	1721	C LEU A 539	29.907	-2.329	40.450	1.00 21.34
ATOM	1722	O LEU A 539	29.600	-3.010	41.403	1.00 27.46
MOTA	1723	CB LEU A 539	28.165	-1.180 -2.427	38.970 38.999	1.00 22.82 1.00 25.22
ATOM	1724 1725	CG LEU A 539 CD1 LEU A 539	27.298 26.383	-2.427	40.212	1.00 23.22
MOTA MOTA	1726	CD2 LEU A 539	26.489	-2.512	37.687	1.00 26.32
ATOM	1727	N LEU A 540	30.889	-2.564	39.616	1.00 24.92
ATOM	1728	CA LEU A 540	31.808	-3.717	39.812	1.00 31.88 1.00 30.52
ATOM	1729	C LEU A 540 O LEU A 540	32.518 32.598	-3.655 -4.650	41.163 41.875	1.00 30.32
ATOM ATOM	1730 1731	O LEU A 540 CB LEU A 540	32.829	-3.697	38.666	1.00 29.45
ATOM	1732	CG LEU A 540	33.861	-4.865	38.710	1.00 37.60
MOTA	1733	CD1 LEU A 540	33.184	-6.206	38.876	1.00 36.10 1.00 39.88
ATOM	1734	CD2 LEU A 540 N GLU A 541	34.700 33.018	-4.809 -2.494	37.449 41.579	1.00 39.88 1.00 32.71
MOTA MOTA	1735 1736	N GLU A 541 CA GLU A 541	33.658	-2.334	42.881	1.00 31.44
ATOM	1737	C GLU A 541	32.698	-2.709	44.015	1.00 30.48
ATOM	1738	O GLU A 541	33.067	-3.302	45.012	1.00 33.64
MOTA	1739	CB GLU A 541	34.190 35.058	-0.926 -0.841	43.146 44.410	1.00 35.85 1.00 42.38
ATOM ATOM	1740 1741	CG GLU A 541 CD GLU A 541	36.133	-1.934	44.373	1.00 47.06
ATOM	1742	OE1 GLU A 541	36.994	-1.908	43.484	1.00 46.54
ATOM	1743	OE2 GLU A 541	36.120	-2.860	45.210 43.953	1.00 53.26 1.00 25.53
ATOM	1744	N MET A 542 CA MET A 542	31.440 30.427	-2.244 -2.556	43.955	1.00 25.12
MOTA MOTA	1745 1746	CA MET A 542 C MET A 542	30.201	-4.072	45.019	1.00 28.01
MOTA	1747	O MET A 542	30.232	-4.626	46.114	1.00 29.02
MOTA	1748	CB MET A 542	29.074	-1.863	44.632	1.00 23.97
MOTA	1749	CG MET A 542	28.085	-2.113 -3.597	45.753 45.520	1.00 22.61 1.00 27.90
ATOM	1750 1751	SD MET A 542 CE MET A 542	27.112 26.106	-3.397	44.082	1.00 26.51
ATOM ATOM	1752	N LEU A 543	29.975	-4.730	43.893	1.00 27.93
ATOM	1753	CA LEU A 543	29.789	-6.177	43.882	1.00 37.51
MOTA	1754	C LEU A 543	31.077	-6.907	44.305 44.851	1.00 29.29 1.00 40.69
MOTA	1755 1756	O LEU A 543 CB LEU A 543	30.992 29.394	-8.002 -6.592	44.851	1.00 40.09
ATOM ATOM	1757	CG LEU A 543	27.999	-6.116	42.022	1.00 39.20
MOTA	1758	CD1 LEU A 543	27.844	-6.273	40.513	1.00 37.50
ATOM	1759	CD2 LEU A 543	26.964	-6.890	42.819 44.020	
ATOM	1760	N ASN A 544 CA ASN A 544	32.251 33.450	-6.388 -7.147	44.460	
MOTA MOTA	1761 1762	CA ASN A 544 C ASN A 544	33.430	-7.064	45.960	1.00 43.50
MOTA	1763	O ASN A 544	33.883	-8.067	46.657	
MOTA	1764	CB ASN A 544	34.624	-6.686	43.612	1.00 45.08

7 more	1765	00	ASN A	E 1 1	34.582	-7.357	42.246	1.00 44.51
MOTA	1765	CG			35.290	-6.838	41.385	1.00 51.67
MOTA	1766	OD1		544		-	42.089	1.00 51.31
MOTA	1767		ASN A		33.838	-8.437		
MOTA	1768	N	ALA A		33.361	-5.926	46.585	
ATOM	1769	CA	ALA A		33.453	-5.756	48.021	1.00 38.08
ATOM	1770	С	ALA A	545	32.268	-6.193	48.848	1.00 37.95
MOTA	1771	0	ALA A	545	32.444	-6.329	50.078	1.00 47.01
ATOM	1772	CB	ALA A	545	33.672	-4.257	48.315	1.00 36.01
ATOM	1773	N	HIS A	546	31.048	-6.361	48.386	1.00 31.25
ATOM	1774	CA	HIS A		29.911	-6.714	49.206	1.00 32.20
ATOM	1775	C	HIS A		29.653	-8.214	49.109	1.00 38.99
ATOM	1776	Ö	HIS A		29.988	-8.799	48.073	1.00 34.48
	1777		HIS A		28.664	-5.875	48.914	1.00 35.48
ATOM		CB	HIS A		28.866	-4.431	49.329	1.00 30.08
MOTA	1778	CG		546	28.295	-3.939	50.481	1.00 37.29
ATOM	1779	ND1				-3.435	48.771	1.00 34.54
ATOM	1780		HIS A		29.565		50.619	1.00 35.68
ATOM	1781		HIS A		28.660	-2.660		
ATOM	1782	NE2	HIS A		29.411	-2.339	49.593	1.00 33.94
MOTA	1783	N	VAL A		29.150	-8.824	50.174	1.00 40.87
MOTA	1784	CA	VAL A			-10.273	50.130	1.00 45.83
MOTA	1785	С	VAL A			-10.597	50.207	1.00 48.59
MOTA	1786	0	VAL A	547	26.638	-9.875	50.786	1.00 45.34
MOTA	1787	CB	VAL A	547		-11.039	51.161	1.00 49.80
ATOM	1788	CG1	VAL A	547	30.307	-10.158	52.287	1.00 51.09
MOTA	1789	CG2	VAL A		29.123	-12.243	51.823	1.00 53.46
ATOM	1790	N	LEU A			-11.681	49.496	1.00 43.35
MOTA	1791	CA	LEU A			-12.160	49.515	1.00 47.89
ATOM	1792	C	LEU A			-12.566	50.937	1.00 46.50
	1793	Ö	LEU A			-13.151	51.608	1.00 45.59
ATOM			LEU A			-13.387	48.594	1.00 45.45
ATOM	1794	CB			25.824	-13.036	47.118	1.00 49.38
MOTA	1795	CG	LEU A			-14.264	46.249	1.00 47.84
MOTA	1796		LEU A		26.029		46.615	1.00 48.16
MOTA	1797		LEU A		24.627	-12.232		
MOTA	1798	N	ALA A		24.188	-12.232	51.402	
MOTA	1799	CA	ALA A		23.752	-12.624	52.744	1.00 57.06
MOTA	1800	C	ALA A			-13.653	52.585	1.00 56.83
ATOM	1801	0	ALA A	549		-14.402	51.568	1.00 56.96
ATOM	1802	CB	ALA A	549	23.319	-11.460	53.602	1.00 58.43
ATOM	1803	N	LEU B	311	2.997	26.939	11.936	1.00 28.08
ATOM	1804	CA	LEU B	311	3.288	25.890	12.956	1.00 33.81
ATOM	1805	С	LEU B	311	2.220	24.823	13.099	1.00 36.64
ATOM	1806	0	LEU B	311	2.422	23.943	13.941	1.00 35.73
MOTA	1807	СB	LEU B		3.595	26.539	14.293	1.00 32.95
ATOM	1808	CG	LEU B		4.849	27.406	14.305	1.00 33.74
MOTA	1809	CD1			4.950	28.130	15.644	1.00 36.98
ATOM	1810	CD2			6.095	26.598	14.019	1.00 34.94
ATOM	1811	N	SER B		1.144	24.868	12.322	1.00 33.54
ATOM	1812	CA	SER B		0.128	23.810	12.449	1.00 35.91
	1813	C	SER B		0.830	22.540	11.976	1.00 31.76
ATOM	1814	ŏ	SER B		1.699	22.603	11.127	1.00 28.79
ATOM			SER B		-1.113	24.179	11.641	1.00 37.81
ATOM	1815	CB	SER B	312	-0.946	23.904	10.268	1.00 44.53
ATOM	1816	OG			0.472	21.378	12.505	1.00 33.20
ATOM	1817	N	PRO B		1.160	20.130	12.176	1.00 29.36
ATOM	1818	CA	PRO B	313		19.809	10.726	1.00 30.45
MOTA	1819	C	PRO B		1.374	19.515	10.720	1.00 38.43
MOTA	1820	0	PRO B		2.500		12.871	1.00 28.85
MOTA	1821	CB	PRO B		0.272	19.093		
ATOM	1822	CG	PRO B		-0.357	19.811	14.029	1.00 30.58
MOTA	1823	CD	PRO E		-0.571	21.235	13.545	1.00 32.44
MOTA	1824	N	GLU E		0.350	19.829	9.859	1.00 26.68
ATOM	1825	CA	GLU E		0.570	19.471	8.458	1.00 28.47
MOTA	1826	C	GLU E	3 3 1 4	1.575	20.360	7.714	1.00 26.99
MOTA	1827	0	GLU E		2.441	19.927	6.942	1.00 30.41
ATOM	1828	CB	GLU E		-0.788	19.492	7.734	1.00 35.34
ATOM	1829	CG	GLU E		-0.667	19.284	6.226	1.00 39.69
ATOM	1830	CD	GLU E	3 3 1 4	-2.047	18.819	5.717	1.00 47.00
ATOM	1831	OE1			-3.053	19.421	6.148	1.00 48.55
ATOM	1832	OE2			-2.071	17.867	4.941	1.00 44.66
ATOM	1833	N	GLN E		1.475	21.643	7.937	1.00 26.38
ATOM	1834	CA	GLN E		2.343	22.653	7.352	1.00 29.68
ATOM	1835	C	GLN E		3.763		7.945	1.00 31.40
ATOM	1836	õ	GLN E		4.698		7.183	1.00 27.97
	1837	CB	GLN E		1.778		7.722	1.00 34.22
ATOM	1838	CG	GLN E		2.781		7.527	1.00 45.77
ATOM		CD	GLN E		2.388		7.980	1.00 56.80
ATOM	1839				3.047		7.546	1.00 61.06
ATOM	1840	OE1	GLN E		1.343		8.806	1.00 59.90
ATOM	1841	NEZ	י פרוא ד	پندر ر	T. 743	20.000	3.300	

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ATOM	1842 N LEU B 316	3.844 5.164	22.320	9.266 9.893	1.00 26.87 1.00 30.02
ATOM ATOM ATOM	1843 CA LEU B 316 1844 C LEU B 316 1845 O LEU B 316	5.953 7.087	21.060	9.307	1.00 24.87 1.00 21.60
ATOM ATOM	1846 CB LEU B 316 1847 CG LEU B 316	5.082 6.448	22.171 22.132	11.419 12.151	1.00 30.22 1.00 29.83
ATOM ATOM	1848 CD1 LEU B 316 1849 CD2 LEU B 316	7.407 6.214	23.196 22.305	11.647 13.649	1.00 36.85 1.00 31.20
ATOM ATOM	1850 N VAL B 317 1851 CA VAL B 317	5.290 5.910	19.911 18.754	9.164 8.555	1.00 26.19 1.00 25.93
ATOM ATOM ATOM	1852 C VAL B 317 1853 O VAL B 317	6.283 7.335	19.026 18.608	7.095 6.592	1.00 26.19 1.00 26.56
MOTA MOTA	1854 CB VAL B 317 1855 CG1 VAL B 317	4.963 5.602	17.536 16.338	8.651 7.965	1.00 23.20 1.00 29.83
ATOM ATOM	1856 CG2 VAL B 317 1857 N LEU B 318	4.725 5.366	17.198 19.711	10.129 6.374	1.00 24.89 1.00 26.44
MOTA MOTA	1858 CA LEU B 318 1859 C LEU B 318	5.715 6.993	20.004 20.864	4.961 4.939	1.00 25.87 1.00 21.42
ATOM ATOM	1860 O LEU B 318 1861 CB LEU B 318	7.871 4.557	20.601 20.676	4.105 4.227	1.00 26.99 1.00 34.23
ATOM ATOM	1862 CG LEU B 318 1863 CD1 LEU B 318	4.729 5.709	20.919 19.980	2.721 2.035	1.00 43.62 1.00 43.77
ATOM ATOM	1864 CD2 LEU B 318 1865 N THR B 319	3.321 7.102	20.817 21.869	2.110 5.750	1.00 50.90 1.00 22.65
ATOM ATOM	1866 CA THR B 319 1867 C THR B 319	8.304 9.527	22.714 21.880	5.845 6.190	1.00 23.19 1.00 24.51
ATOM ATOM ATOM	1868 O THR B 319 1869 CB THR B 319	10.600 8.050	22.022 23.836	5.587 6.857	1.00 22.04 1.00 29.56
ATOM ATOM	1870 OG1 THR B 319 1871 CG2 THR B 319	6.938 9.245	24.585 24.756	6.281 7.064	1.00 31.39 1.00 29.89
ATOM ATOM	1872 N LEU B 320 1873 CA LEU B 320	9.341 10.491	20.936 20.067	7.148 7.476	1.00 23.26 1.00 21.50
ATOM ATOM	1874 C LEU B 320 1875 O LEU B 320	10.894 12.092	19.211 19.033	6.299 6.062	1.00 22.15 1.00 24.21
ATOM ATOM	1876 CB LEU B 320 1877 CG LEU B 320	10.196 9.900	19.210 19.993	8.717 9.996	1.00 20.38 1.00 23.03
ATOM ATOM	1878 CD1 LEU B 320 1879 CD2 LEU B 320	9.548 11.194	19.072 20.775	11.165 10.338	1.00 25.32 1.00 27.97
ATOM ATOM	1880 N LEU B 321 1881 CA LEU B 321	9.926 10.193	18.679 17.885	5.537 4.347	1.00 23.98 1.00 27.88
ATOM ATOM	1882 C LEU B 321 1883 O LEU B 321	10.950 12.004	18.700 18.297	3.297	1.00 24.23 1.00 28.05
MOTA MOTA	1884 CB LEU B 321 1885 CG LEU B 321	8.953 9.444	17.279 16.095	3.665 2.797	1.00 32.25 1.00 42.62
MOTA MOTA	1886 CD1 LEU B 321 1887 CD2 LEU B 321	9.195 8.963	14.790 16.136	3.529 1.372	1.00 40.89 1.00 44.42 1.00 26.19
MOTA MOTA	1888 N GLU B 322 1889 CA GLU B 322	10.584 11.273	19.962	3.117 2.204	1.00 28.13 1.00 33.17 1.00 37.53
ATOM ATOM	1890 C GLU B 322 1891 O GLU B 322	12.650 13.557	21.304	2.681 1.874 1.971	1.00 37.33 1.00 34.01 1.00 31.87
MOTA MOTA	1892 CB GLU B 322 1893 CG GLU B 322	10.419 9.136	22.129	1.212	1.00 45.26 1.00 50.64
MOTA MOTA	1894 CD GLU B 322 1895 OE1 GLU B 322	7.960 8.076	22.821 23.889 22.498	2.029	1.00 55.44 1.00 53.60
MOTA MOTA	1896 OE2 GLU B 322 1897 N ALA B 323 1898 CA ALA B 323	6.862 12.918 14.165	21.323 21.776	3.985 4.551	1.00 28.29 1.00 28.43
MOTA MOTA	1899 C ALA B 323	15.262 16.407	20.723 21.056	4.563 4.918	1.00 23.34 1.00 23.98
MOTA MOTA	1900 O ALA B 323 1901 CB ALA B 323 1902 N GLU B 324	13.897 14.960	22.348 19.516	5.942 4.168	1.00 29.41 1.00 23.45
ATOM ATOM	1902 N GLU B 324 1903 CA GLU B 324 1904 C GLU B 324	15.866 17.077	18.397 18.646	4.182 3.323	1.00 23.91 1.00 27.63
MOTA MOTA MOTA	1905 O GLU B 324	16.940 15.176	19.001 17.118	2.143 3.748	1.00 25.43 1.00 26.75
ATOM ATOM ATOM	1907 CG GLU B 324	14.482 15.459	16.319 15.784	4.833 5.884	1.00 27.37
ATOM ATOM ATOM	1909 OE1 GLU B 324	15.687 15.984	16.472 14.678	6.899 5.715	1.00 32.31
ATOM ATOM	1911 N PRO B 325	18.260 19.459	18.474 18.676	3.861 3.077	1.00 30.04
ATOM ATOM	1913 C PRO B 325	19.550 19.174	16.649	1.827	1.00 30.82
MOTA MOTA	1915 CB PRO B 325 1916 CG PRO B 325	20.579 20.014	18.290	4.025 5.394	1.00 32.61
MOTA MOTA	1917 CD PRO B 325	18.528 20.333		5.279 0.858	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1919 1920 1922 1922 1922 1922 1922 1933 1933 1933	CD2 CE1 NE2 N CA C O CB CG1 CG2 N CA C	VAL B 328 LEU B 329 LEU B 329 LEU B 329 LEU B 329	20.577 21.499 22.182 21.322 21.992 20.811 21.672 22.639 24.059 24.280 21.173 20.780 19.450 24.998 26.407 27.150 26.920 27.102 28.608 26.570 28.608 28.901 30.317	16.514 18.603 19.512 19.708 15.369 14.326 14.891 15.813 13.130 12.440 13.005 11.225 12.173 11.084 14.343 14.756 13.684 12.470 14.983 15.126 16.241 14.161 13.208 13.139 14.166	-0.370 -0.021 1.023 -1.220 -0.229 0.745 -0.519 -0.698 -1.510 -1.458 -1.478 -2.048 -1.943 -1.326 0.058 -0.768 1.329 2.013 -1.629 -2.428 -1.856 -1.773	1.00 34.47 1.00 36.74 1.00 28.88 1.00 33.99 1.00 36.09 1.00 31.99 1.00 33.12 1.00 35.27 1.00 34.67 1.00 30.20 1.00 44.84 1.00 52.21 1.00 56.60 1.00 58.32 1.00 55.20 1.00 26.84 1.00 29.87 1.00 35.70 1.00 37.59 1.00 37.59 1.00 36.69 1.00 36.69 1.00 36.50 1.00 33.10 1.00 27.72
MOTA MOTA	1946 1947	CB CG	LEU B 329 LEU B 329	29.040 27.970	14.691	-3.866 -4.259	1.00 39.45 1.00 45.22
ATOM ATOM	1948 1949	CD1 CD2	LEU B 329 LEU B 329	28.564 26.920		-4.921 -5.142	1.00 51.61 1.00 48.87
MOTA MOTA	1950 1951	N CA	ILE B 330 ILE B 330	30.704 32.040		-1.413 -0.878	1.00 32.02 1.00 31.90
ATOM	1952	С	ILE B 330	32.277	10.263	-1.213	1.00 30.64
MOTA MOTA	1953 1954	O CB	ILE B 330 ILE B 330	31.317 32.173		-1.174 0.599	1.00 29.62 1.00 31.89
ATOM	1955	CG1	ILE B 330	33.622	12.184	1.039	1.00 38.77
MOTA MOTA	1956 1957	CG2 CD1	ILE B 330 ILE B 330	31.427 33.898		1.485 2.371	1.00 34.48 1.00 36.86
ATOM	1958	N	SER B 331	33.481	. 9.916	-1.636	1.00 30.39
ATOM -	1959 1960	CA C	SER B 331 SER B 331	33.763 34.935		-1.991 -1.147	1.00 30.31 1.00 28.82
MOTA	1961	0	SER B 331	35.624	8.891	-0.621	1.00 33.08
MOTA MOTA	1962 1963	CB OG	SER B 331 SER B 331	34.269 33.205		-3.451 -4.372	1.00 36.40 1.00 44.06
MOTA	1964	N	ARG B 332	35.193 36.381		-1.123 -0.407	1.00 34.39 1.00 39.40
ATOM ATOM	1965 1966	CA C	ARG B 332 ARG B 332	37.630	6.760	-1.111	1.00 40.89
MOTA	1967	O	ARG B 332 ARG B 332	37.532 36.419		-2.301 -0.540	1.00 37.21 1.00 41.47
MOTA MOTA	1968 1969	CB CG	ARG B 332	35.191	4.031	-0.039	1.00 35.40
MOTA	1970 1971	CD NE	ARG B 332 ARG B 332			-0.298 0.457	1.00 36.04 1.00 32.43
ATOM ATOM	1972	CZ	ARG B 332	34.484	1.239	1.581	1.00 32.86
MOTA MOTA	1973 1974	NH1 NH2	ARG B 332 ARG B 332	33.409 35.717		2.207 2.019	1.00 31.12 1.00 32.26
MOTA	1975	N	PRO B 333	38.740	6.812	-0.404	1.00 40.15
ATOM ATOM	1976 1977	CA C	PRO B 333			-0.991 -1.943	1.00 42.44 1.00 44.51
ATOM	1978	0	PRO B 333	40.051	L 5.063	-1.909	1.00 35.65 1.00 43.67
MOTA ATOM	1979 1980	CB CG	PRO B 333	40.896 40.351		0.226 1.268	1.00 43.87
ATOM	1981 1982	CD N	PRO B 333 SER B 334			1.019 -2.811	1.00 40.70 1.00 47.81
ATOM ATOM	1983	CA	SER B 334	42.08	5.532	-3.662	1.00 53.70
ATOM ATOM	198 4 1985	C	SER B 334 SER B 334			-2.730 -2.305	1.00 54.54 1.00 57.51
ATOM	1986	CB	SER B 334	42.770	6.035	-4.912	1.00 59.20
ATOM ATOM	1987 1988	OG N	SER B 334 ALA B 335			-5.830 -2.366	1.00 62.84 1.00 57.13
MOTA	1989	CA	ALA B 335	44.189	3.118	-1.471	1.00 57.19
ATOM ATOM	1990 1991	C O	ALA B 335 ALA B 335		5 2.954	-0.371 -0.070	1.00 56.88 1.00 59.11
MOTA	1992 1993	CB N	ALA B 335 PRO B 336			-0.895 0.173	1.00 51.31 1.00 57.85
MOTA MOTA	1994	CA	PRO B 336	43.00	2 0.675	1.230	1.00 50.78
MOTA	1995	С	PRO B 336	42.77	9 1.635	2.383	1.00 44.37

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MOTA	1996	0	PRO B 336	43.612		2.492 1.585	1.00 37.84 1.00 53.06
MOTA	1997	CB	PRO B 336	43.846 44.980		0.642	1.00 56.37
MOTA	1998	CG	PRO B 336	45.082		-0.133	1.00 56.75
MOTA	1999 2000	CD N	PRO B 336 PHE B 337	41.748		3.226	1.00 40.95
MOTA MOTA	2001	CA	PHE B 337	41.676		4.310	1.00 36.23
MOTA	2002	C	PHE B 337	42.762		5.383	1.00 36.84
ATOM	2003	ō	PHE B 337	43.269		5.701	1.00 35.34
ATOM	2004	CB	PHE B 337	40.390		5.159	1.00 31.96
MOTA	2005	CG	PHE B 337	39.263		4.699	1.00 34.87
MOTA	2006	CD1	PHE B 337	39.363		4.738 4.253	1.00 32.24 1.00 31.52
ATOM	2007	CD2	PHE B 337 PHE B 337	38.079 38.325		4.307	1.00 28.75
MOTA MOTA	2008 2009	CE1	PHE B 337	37.038		3.811	1.00 32.01
ATOM	2010	CZ	PHE B 337	37.15		3.818	1.00 27.84
ATOM	2011	N	THR B 338	43.132		6.012	1.00 33.30
MOTA	2012	CA	THR B 338	44.013	3.534	7.156	1.00 29.45
MOTA	2013	C	THR B 338	43.30		8.309 8.067	1.00 28.52 1.00 26.68
MOTA	2014	0	THR B 338	42.339 45.368		6.987	1.00 20.08
ATOM	2015 2016	CB OG1	THR B 338 THR B 338	45.19		6.727	1.00 30.26
MOTA MOTA	2017	CG2	THR B 338	46.14		5.846	1.00 29.51
ATOM	2018	N	GLU B 339	43.92	4.256	9.484	1.00 28.92
ATOM	2019	CA	GLU B 339	43.29		10.582	1.00 32.61
MOTA	2020	C	GLU B 339	43.16		10.160 10.330	1.00 28.51 1.00 31.42
MOTA	2021	0	GLU B 339	42.10 44.15		11.848	1.00 31.42
MOTA	2022 2023	CB CG	GLU B 339 GLU B 339	43.55		12.990	1.00 26.60
MOTA MOTA	2023	CD	GLU B 339	44.22		14.295	1.00 33.99
ATOM	2025	OE1	GLU B 339	45.14	6.015	14.724	1.00 36.37
ATOM	2026	OE2	GLU B 339	43.79		14.845	1.00 34.15
MOTA	2027	N	ALA B 340	44.25		9.675 9.231	1.00 29.47 1.00 27.20
ATOM	2028	CA	ALA B 340 ALA B 340	44.17 43.16		8.129	1.00 27.59
MOTA MOTA	2029 2030	С 0	ALA B 340	42.41		8.200	1.00 25.16
ATOM	2031	ČВ	ALA B 340	45.54		8.663	1.00 28.39
ATOM	2032	N	SER B 341	43.12		7.064	1.00 27.38
MOTA	2033	CA	SER B 341	42.25		5.930 6.248	1.00 29.36 1.00 29.72
MOTA	2034	C	SER B 341 SER B 341	40.80 39.92		5.662	1.00 29.01
ATOM ATOM	2035 2036	O CB	SER B 341	42.71		4.645	1.00 26.99
ATOM	2037	OG	SER B 341	42.47		4.739	1.00 27.11
ATOM	2038	N	MET B 342	40.52		7.166	1.00 24.98 1.00 23.68
MOTA	2039	CA	MET B 342	39.15 38.67		7.561 8.414	1.00 23.68 1.00 23.31
MOTA	2040	C O	MET B 342 MET B 342	37.52		8.206	1.00 25.29
MOTA MOTA	2041 2042	CB	MET B 342	38.89		8.386	1.00 27.55
ATOM	2043	CG	MET B 342	37.39	7 5.215	8.550	1.00 27.66
MOTA	2044	SD	MET B 342	37.09		9.380 8.974	1.00 29.65 1.00 44.03
ATOM	2045	CE	MET B 342 MET B 343	35.50 39.54		9.265	1.00 21.82
ATOM ATOM	2046 2047	N CA	MET B 343	39.18		10.107	1.00 22.48
ATOM	2048	C	MET B 343	39.01		9.212	1.00 24.67
ATOM	2049	0	MET B 343	38.11		9.360	1.00 21.01
MOTA	2050	CB	MET B 343	40.14		11.247 12.342	1.00 24.43 1.00 22.35
MOTA	2051 2052	CG SD	MET B 343 MET B 343	39.97 38.31		13.096	1.00 21.63
MOTA MOTA	2053	CE	MET B 343	38.16		13.402	1.00 25.68
MOTA	2054	N	MET B 344	39.88		8.218	1.00 24.93
MOTA	2055	CA	MET B 344	39.79			1.00 25.48 1.00 22.31
ATOM	2056	C	MET B 344 MET B 344	38.4° 37.8°			1.00 23.67
MOTA MOTA	2057 2058	O CB	MET B 344	40.9			1.00 29.94
MOTA	2059	CG	MET B 344	40.7	13.025	5.182	1.00 37.21
ATOM	2060	SD	MET B 344	42.3	54 13.368		
MOTA	2061	CE	MET B 344	42.9			
MOTA	2062	N	SER B 345	38.0 [,] 36.7			
ATOM	2063 2064	CA C	SER B 345 SER B 345	35.6			1.00 22.08
MOTA ATOM	2064		SER B 345	34.6		5.801	1.00 22.12
ATOM	2066	CB	SER B 345	36.4	81 9.333		
MOTA	2067	OG	SER B 345	37.4			
ATOM	2068		LEU B 346	35.6 34.4			
ATOM ATOM	2069 2070		LEU B 346 LEU B 346	34.4		8.686	1.00 18.81
MOTA	2070		LEU B 346	33.2	98 13.099	8.724	1.00 22.67
MOTA	2072		LEU B 346	34.5	02 10.131	. 9.599	1.00 19.43

ATOM ATOM	2073 2074			346 346	34.427 34.561	8.639 7.966	9.369 10.740	1.00 24.42 1.00 28.57
MOTA MOTA	2075 2076		LEU B	346 347	33.157 35.546	8.187 13.087	8.655 8.986	1.00 29.99 1.00 19.93
MOTA MOTA	2077 2078	CA C	THR B	347 347	35.528 35.308	14.507	9.342	1.00 19.84 1.00 24.67 1.00 22.92
ATOM ATOM	2079 2080 2081	O CB OG1	THR B	347 347 347	34.717 36.838 37.991	16.475 14.910 14.605	8.227 10.037 9.228	1.00 22.92 1.00 23.31 1.00 24.67
ATOM ATOM ATOM	2082 2083		THR B	347 348	36.890 35.811	14.105 14.974	11.334	1.00 24.77 1.00 22.52
ATOM ATOM	208 4 208 5	CA C	LYS B	348 348	35.551 34.059	15.788 15.717	5.765 5.428	1.00 23.61 1.00 24.49
ATOM ATOM	2086 2087	O CB	LYS B	348 348 348	33.456 36.403 36.053	16.725 15.342 16.197	5.062 4.563 3.334	1.00 22.74 1.00 24.18 1.00 37.16
ATOM ATOM ATOM	2088 2089 2090	CG CD CE		348	37.153 36.641	16.043 16.262	2.284	1.00 46.82 1.00 55.26
ATOM ATOM	2091 2092	NZ N	LYS B LEU B	348 349	37.815 33.472	16.235 14.539	-0.085 5.550	1.00 55.79
ATOM ATOM	2093 2094	CA C	LEU B	349 349 349	32.029 31.203 30.243	14.391 15.243 15.901	5.307 6.270 5.846	1.00 23.65 1.00 20.57 1.00 19.40
ATOM ATOM ATOM	2095 2096 2097	O CB CG	LEU B	349 349	31.580 30.096	12.953 12.610	5.470 5.442	1.00 21.30 1.00 19.13
ATOM ATOM	2098 2099	CD2		349 349	29.501 29.844	13.108	4.100 5.672 7.561	1.00 24.56 1.00 19.63 1.00 16.98
ATOM ATOM ATOM	2100 2101 2102	N CA C		350 350 350	31.613 30.858 30.952	15.152 15.982 17.454	8.544 8.186	1.00 16.28 1.00 19.41
MOTA MOTA	2103 2104	O CB	ALA B	350 350	29.939 31.472	18.204 15.773	8.257 9.941	1.00 21.18 1.00 22.64
MOTA MOTA	2105 2106	N CA		351 351 351	32.101 32.224 31.238	17.948 19.365 19.737	7.738 7.361 6.261	1.00 23.16 1.00 21.48 1.00 23.62
ATOM ATOM ATOM	2107 2108 2109	C O CB	ASP B	351 351 351	30.570 33.665	20.774	6.396 6.857	1.00 21.75 1.00 25.15
MOTA MOTA	2110 2111	CG OD1	ASP B	351 351	33.915 34.094	21.092	6.619 7.552	1.00 29.55 1.00 24.38 1.00 29.71
ATOM ATOM ATOM	2112 2113 2114	OD2 N CA		351 352 352	33.910 31.108 30.201	21.397 18.838 19.124	5.421 5.245 4.157	1.00 23.19 1.00 20.51
ATOM ATOM	2115 2116	C 0	LYS B LYS B	352 352	28.758 27.947	19.109 19.974	4.667	1.00 24.27 1.00 21.67
ATOM ATOM	2117 2118 2119	CB CG CD	LYS B LYS B	352 352 352	30.382 31.877 31.877	18.082 17.933 17.094	3.038 2.601 1.313	1.00 24.81 1.00 30.93 1.00 34.26
MOTA MOTA MOTA	2120 2121	CE NZ		352	33.301 33.509	17.013 15.899	0.763 -0.201	1.00 41.29 1.00 45.08
MOTA MOTA	2122 2123	N CA	GLU B GLU B	353 353	28.428 27.046	18.140 18.100 19.277	5.526 6.066 7.021	1.00 17.32 1.00 16.22 1.00 16.23
ATOM ATOM ATOM	2124 2125 2126	C O CB	GLU B GLU B	353	26.782 25.612 26.853	19.734 16.785	7.097 6.831	1.00 19.91 1.00 19.85
MOTA MOTA	2127 2128	CG CD	GLU B GLU B	353 353	26.755 26.332	15.616 14.342	5.849 6.575 6.692	1.00 19.59 1.00 24.45 1.00 23.64
ATOM ATOM ATOM	2129 2130 2131	OE1 OE2 N	GLU B GLU B LEU B	353	25.117 27.224 27.762	14.127 13.602 19.710	7.037	1.00 23.04 1.00 22.60 1.00 16.03
ATOM ATOM	2132 2133	CA C	LEU B	354 354	27.579 27.244	20.814	8.704 7.957	1.00 17.28 1.00 22.35
ATOM ATOM	2134 2135 2136	O CB CG	LEU B LEU B	354	26.380 28.857 29.000	22.849 21.001 19.896	8.466 9.560 10.630	1.00 20.33 1.00 20.38 1.00 20.09
ATOM ATOM ATOM	2137 2138	CD1	LEU B	354 354	30.374 27.921	20.090 20.070	11.265 11.703	1.00 17.36 1.00 20.87
ATOM ATOM	2139 2140	N CA	VAL B VAL B VAL B	355	27.823 27.379 25.888	22.335 23.565 23.480	6.779 6.039 5.746	1.00 19.23 1.00 21.68 1.00 24.26
ATOM ATOM ATOM	2141 2142 2143	C O CB	VAL B	355 355	25.072 28.129	24.395 23.625	5.890 4.686	1.00 24.15 1.00 27.74
ATOM ATOM	2144 2145	CG1 CG2	VAL B	355 355	27.656 29.647	24.778 23.727	3.790 4.865 5.323	1.00 26.81 1.00 27.16 1.00 23.49
MOTA MOTA MOTA	2146 2147 2148	N CA C	HIS B HIS B	356	25.415 23.998 23.154	22.304 22.087 22.102	5.018 6.271	1.00 23.21 1.00 22.92
ATOM	2149	ō	HIS E		21.981	22.450	6.206	1.00 21.28

MOTA		CB HIS B 356	23.798 24.325	20.750 20.826	4.290 2.886	1.00 22.36 1.00 34.11
ATOM ATOM ATOM	2152	CG HIS B 356 ND1 HIS B 356 CD2 HIS B 356	23.899 25.144	21.870	2.082	1.00 37.17 1.00 35.97
ATOM	2154	CE1 HIS B 356 NE2 HIS B 356	24.458 25.197	21.758 20.667	0.892 0.903	1.00 41.58 1.00 38.16
MOTA MOTA	2156	N MET B 357	23.731 22.903	21.675 21.723	7.431 8.643	1.00 20.58 1.00 22.73
MOTA MOTA	2158	C MET B 357	22.497	23.152 23.360	8.985 9.509	1.00 24.13 1.00 21.21
MOTA MOTA		O MET B 357 CB MET B 357	21.409 23.662	21.090	9.825	1.00 20.64
MOTA		CG MET B 357	22.815	20.946	11.072	1.00 22.76
MOTA		SD MET B 357	23.835	20.185	12.386	1.00 19.26
ATOM ATOM		CE MET B 357 N ILE B 358	24.212 23.412	18.588 24.115	11.655 8.842	1.00 23.13 1.00 22.55
ATOM	2165	CA ILE B 358	23.064	25.523	9.127	1.00 22.86
ATOM		C ILE B 358	21.879	25.934	8.260	1.00 20.28
ATOM	2167	O ILE B 358	20.931	26.538	8.795	1.00 23.07
ATOM		CB ILE B 358	24.241	26.456	8.781	1.00 25.27
MOTA	2169	CG1 ILE B 358	25.478	26.169	9.603	1.00 23.65
MOTA	2170	CG2 ILE B 358	23.830	27.946	9.041	1.00 24.03
ATOM	2171	CD1 ILE B 358	25.384 21.972	26.213 25.693	11.077 6.950	1.00 23.64 1.00 22.49
MOTA	2172	CA SER B 359	20.842	26.052	6.068	1.00 24.30
MOTA	2173		19.550	25.362	6.492	1.00 23.34
MOTA MOTA	2174 2175	C SER B 359 O SER B 359	18.511	26.007	6.473 4.560	1.00 23.51 1.00 30.58
MOTA MOTA	2176 2177	CB SER B 359 OG SER B 359	21.031 22.272	25.794 26.354	4.169	1.00 30.30 1.00 37.98 1.00 19.52
MOTA MOTA	2178 2179	N TRP B 360 CA TRP B 360	19.559 18.403	24.067	6.810 7.307	1.00 19.34
ATOM	2180	C TRP B 360	17.853	24.045	8.542	1.00 21.70
ATOM	2181	O TRP B 360	16.636	24.272		1.00 23.01
ATOM	2182	CB TRP B 360	18.754	21.889	7.625	1.00 21.40
ATOM	2183	CG TRP B 360	17.855	21.145	8.551	1.00 21.72
ATOM	2184	CD1 TRP B 360	16.645	20.604	8.179	1.00 23.33
ATOM	2185	CD2 TRP B 360	18.032	20.823	9.939	1.00 19.39
MOTA	2186	NE1 TRP B 360	16.043	19.988	9.280	1.00 21.79
MOTA	2187	CE2 TRP B 360	16.885	20.113	10.352	1.00 21.03
MOTA	2188	CE3 TRP B 360	19.033	21.075	10.873	1.00 19.08
MOTA	2189	CZ2 TRP B 360	16.711	19.580	11.641	1.00 18.45
MOTA	2190	CZ3 TRP B 360	18.880	20.573	12.184	1.00 19.70
	2191	CH2 TRP B 360	17.725	19.859	12.534	1.00 18.29
ATOM	2192	N ALA B 361	18.711	24.302	9.535	1.00 19.80
ATOM		CA ALA B 361	18.209	24.862	10.782	1.00 19.54
ATOM	2193	C ALA B 361	17.544	26.215	10.542	1.00 24.20
ATOM	2194		16.518	26.490	11.134	1.00 22.57
ATOM ATOM	2195 2196	CB ALA B 361	19.298 18.144	24.976 27.014	11.820	1.00 19.50 1.00 21.91
ATOM ATOM	2197 2198	N LYS B 362 CA LYS B 362	17.525	28.297	9.321 8.665	
ATOM	2199	C LYS B 362	16.166	28.178	8.663	1.00 28.44
ATOM	2200	O LYS B 362	15.389	29.173		1.00 26.95
ATOM	2201	CB LYS B 362	18.501	29.050	8.378	1.00 31.89
ATOM	2202	CG LYS B 362	19.611	29.591	9.321	
ATOM	2203	CD LYS B 362	20.665	30.388	8.556	1.00 36.74
ATOM	2204	CE LYS B 362	20.241	31.816	8.263	
ATOM	2205	NZ LYS B 362	21.058	32.445	7.174	1.00 40.64
ATOM	2206	N LYS B 363	15.821	27.028		1.00 21.94
MOTA	2207	CA LYS B 363	14.518	26.860	7.486	1.00 25.35
MOTA	2208	C LYS B 363	13.451	26.373	8.469	1.00 29.06
MOTA	2209	O LYS B 363	12.281	26.308	8.042	1.00 29.31
MOTA	2210	CB LYS B 363	14.619	25.913	6.297	1.00 22.51
MOTA	2211	CG LYS B 363	15.615	26.489	5.273	1.00 25.76
MOTA	2212	CD LYS B 363	15.698	25.515	4.094	1.00 32.07
ATOM	2213	CE LYS B 363	16.603	26.053	3.000	1.00 34.68
ATOM	2214	NZ LYS B 363	16.953	24.999	2.007	1.00 44.70
ATOM	2215	N ILE B 364	13.808	26.069	9.684	1.00 27.38
ATOM	2216	CA ILE B 364	12.773	25.623	10.671	1.00 29.33
ATOM	2217	C ILE B 364	12.047	26.864	11.142	1.00 30.86
ATOM	2218	O ILE B 364	12.650	27.796	11.673	1.00 29.37
MOTA MOTA	2219 2220	CB ILE B 364 CG1 ILE B 364	13.395 13.941	24.857	11.834 11.255	1.00 35.56
MOTA	2221 2222	CG2 ILE B 364 CD1 ILE B 364	12.345 14.792	24.497	12.901 12.242	1.00 32.74
MOTA MOTA	2223	N PRO B 365 CA PRO B 365	10.733	26.896	10.963	1.00 34.82 1.00 36.62
MOTA MOTA	2224 2225	C PRO B 365 O PRO B 365	10.292	28.581	12.695	1.00 31.74
MOTA	2226	O EWO D 202	10.014			

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MOTA	2227 CB PRO B 365 2228 CG PRO B 365	8.495 8.540	27.578 26.408	11.208 10.293	1.00 34.89 1.00 37.43
MOTA MOTA	2228 CG PRO B 365 2229 CD PRO B 365	9.903	25.808	10.380	1.00 36.52
MOTA	2230 N GLY B 366	10.626	29.867	12.731	1.00 35.19
MOTA	2231 CA GLY B 366	10.960	30.546	13.971	1.00 35.04 1.00 36.83
MOTA	2232 C GLY B 366	12.397 12.818	30.406 31.122	14.442 15.344	1.00 36.83
ATOM ATOM	2233 O GLY B 366 2234 N PHE B 367	13.209	29.505	13.848	1.00 31.04
MOTA	2235 CA PHE B 367	14.576	29.367	14.330	1.00 28.81
MOTA	2236 C PHE B 367	15.347	30.679	14.151 15.087	1.00 27.63 1.00 29.57
ATOM	2237 O PHE B 367 2238 CB PHE B 367	16.041 15.320	31.071 28.235	13.611	1.00 29.68
ATOM ATOM	2238 CB PHE B 367 2239 CG PHE B 367	16.726	28.000	14.123	1.00 27.93
ATOM	2240 CD1 PHE B 367	16.930	27.180	15.194	1.00 28.07 1.00 26.67
MOTA	2241 CD2 PHE B 367	17.821 18.209	28.601 26.951	13.513 15.704	1.00 20.07
ATOM ATOM	2242 CE1 PHE B 367 2243 CE2 PHE B 367	19.097	28.356	13.981	1.00 24.62
ATOM	2244 CZ PHE B 367	19.315	27.524	15.089	1.00 24.18
ATOM	2245 N VAL B 368	15.198 15.932	31.350 32.593	13.010 12.778	1.00 31.59 1.00 33.70
MOTA MOTA	2246 CA VAL B 368 2247 C VAL B 368	15.405	33.752	13.626	1.00 36.58
ATOM	2248 O VAL B 368	16.049	34.803	13.614	1.00 37.80
ATOM	2249 CB VAL B 368	15.910	33.003	11.301 10.443	1.00 32.36 1.00 34.27
MOTA	2250 CG1 VAL B 368 2251 CG2 VAL B 368	16.690 14.475	32.000 33.098	10.443	1.00 34.27
MOTA MOTA	2251 CG2 VAL B 368 2252 N GLU B 369	14.302	33.609	14.325	1.00 38.63
ATOM	2253 CA GLU B 369	13.715	34.607	15.203	1.00 43.96 1.00 45.39
MOTA	2254 C GLU B 369 2255 O GLU B 369	14.224 13.893	34.433 35.211	16.625 17.524	1.00 43.33
MOTA MOTA	2255 O GLU B 369 2256 CB GLU B 369	12.190	34.521	15.182	1.00 50.15
ATOM	2257 CG GLU B 369	11.644	34.939	13.823	1.00 56.65
ATOM	2258 CD GLU B 369	10.217 9.519	34.475 34.182	13.615 14.605	1.00 60.83 1.00 62.32
MOTA MOTA	2259 OE1 GLU B 369 2260 OE2 GLU B 369	9.811	34.400	12.434	1.00 63.35
ATOM	2261 N LEU B 370	14.973	33.349	16.842	1.00 38.98
MOTA	2262 CA LEU B 370	15.622 16.828	33.121 34.093	18.115 18.159	1.00 35.51 1.00 34.78
MOTA MOTA	2263 C LEU B 370 2264 O LEU B 370	17.353	34.493	17.120	1.00 36.72
ATOM	2265 CB LEU B 370	16.152	31.688	18.280	1.00 33.38 1.00 33.47
MOTA	2266 CG LEU B 370 2267 CD1 LEU B 370	15.046 15.690	30.619 29.241	18.367 18.490	1.00 33.47 1.00 33.96
ATOM ATOM	2267 CD1 LEU B 370 2268 CD2 LEU B 370	14.042	30.909	19.489	1.00 31.83
ATOM	2269 N SER B 371	17.257	34.414	19.362	1.00 36.47 1.00 36.59
MOTA	2270 CA SER B 371 2271 C SER B 371	18.406 19.642	35.290 34.602	19.526 18.968	1.00 36.59 1.00 38.96
ATOM ATOM	2271 C SER B 371 2272 O SER B 371	19.671	33.352	18.929	1.00 33.42
ATOM	2273 CB SER B 371	18.660	35.563	21.010	1.00 36.21 1.00 34.10
ATOM	2274 OG SER B 371 2275 N LEU B 372	19.276 20.661	34.476 35.404	21.679 18.625	1.00 34.10
MOTA MOTA	2275 N LEU B 372 2276 CA LEU B 372	21.898	34.838	18.130	1.00 29.93
ATOM	2277 C LEU B 372	22.467	33.829	19.087 18.709	1.00 29.34 1.00 32.54
MOTA	2278 O LEU B 372 2279 CB LEU B 372	23.071 22.919	32.823 35.966	17.938	1.00 34.52
MOTA MOTA	2279 CB LEU B 372 2280 CG LEU B 372	24.270	35.675	17.321	1.00 37.48
MOTA	2281 CD1 LEU B 372	24.186	34.767 37.017	16.098 16.879	1.00 37.75 1.00 43.32
ATOM ATOM	2282 CD2 LEU B 372 2283 N PHE B 373	24.881 22.498	34.206	20.393	1.00 28.95
ATOM	2284 CA PHE B 373	23.087	33.272	21.358	1.00 33.97
MOTA	2285 C PHE B 373	22.304 22.960	31.967 30.926	21.429 21.545	1.00 29.91 1.00 29.72
MOTA ATOM	2286 O PHE B 373 2287 CB PHE B 373	23.265	33.954		1.00 37.52
MOTA	2288 CG PHE B 373	24.325	35.046	22.637	1.00 41.67 1.00 46.80
MOTA	2289 CD1 PHE B 373 2290 CD2 PHE B 373	25.146 24.528	35.196 35.901		
MOTA MOTA	2290 CD2 PHE B 373 2291 CE1 PHE B 373	26.109	36.176	21.462	1.00 49.01
ATOM	2292 CE2 PHE B 373	25.492	36.899	23.645	
MOTA		26.278 20.973	37.025 32.048		
MOTA MOTA		20.191		21.427	1.00 31.49
MOTA	2296 C ASP B 374	20.446	29.964	20.153	
ATOM		20.678 18.706			
ATOM ATOM	2299 CG ASP B 374	18.273	31.344	23.033	1.00 36.83
MOTA	2300 OD1 ASP B 374	19.090			
ATOM		17.094 20.495		19.008	1.00 29.43
MOTA MOTA	22.24 P. CTM D 27E	20.774			

ATOM	2304		375	22.083	29.093	17.902	1.00 28.91
ATOM ATOM	2305 2306		375 375	22.174 20.788	27.926 30.768	17.537 16.555	1.00 24.32 1.00 25.04
ATOM ATOM	2307 2308		375 375	19.398 19.409	31.276 32.132	16.157 14.909	1.00 26.15 1.00 31.28
MOTA	2309	OE1 GLN B 3	375	20.055	31.841	13.902	1.00 33.19
ATOM ATOM	2310 2311		375 376	18.679 23.156	33.254 29.788	14.933 18.273	1.00 34.93 1.00 26.24
MOTA	2312	CA VAL B 3	376 376	24.475 24.563	29.229 28.156	18.402 19.479	1.00 24.06 1.00 24.86
ATOM ATOM	2313 2314	O VAL B 3	376	25.224	27.136	19.230	1.00 27.38
MOTA MOTA	2315 2316		376 376	25.541 26.921	30.309 29.701	18.686 18.752	1.00 28.98 1.00 32.68
MOTA	2317 2318		376	25.523 23.908	31.331 28.345	17.536 20.632	1.00 30.22 1.00 24.35
MOTA MOTA	2319	CA ARG B 3	377	24.042	27.277	21.626	1.00 25.87 1.00 21.79
MOTA MOTA	2320 2321	C ARG B 3	377 377	23.297 23.788	26.014 24.893	21.143 21.450	1.00 25.08
MOTA MOTA	2322 2323	CB ARG B 3	377 377	23.560 22.067	27.650 27.918	23.028 23.037	1.00 33.86 1.00 34.88
MOTA	2324	CD ARG B	377	21.449	27.510 28.177	24.366 24.596	1.00 47.44 1.00 49.34
ATOM ATOM	2325 2326		377 377	20.176 19.171	27.713	25.323	1.00 51.60
ATOM ATOM	2327 2328		377 377	18.060 19.257	28.424 26.509	25.451 25.900	1.00 52.27 1.00 53.69
MOTA	2329	N LEU B	378 378	22.163 21.460	26.167 24.947	20.499 20.012	1.00 21.68 1.00 20.41
ATOM ATOM	2330 2331	C LEU B	378	22.314	24.160	19.032	1.00 21.16
MOTA MOTA	2332 2333	_	378 378	22.467 20.113	22.933 25.303	19.106 19.394	1.00 20.81 1.00 24.70
ATOM ATOM	2334 2335		378 378	19.087 17.809	25.959 26.231	20.354 19.595	1.00 27.24 1.00 31.14
MOTA	2336	CD2 LEU B	378 379	18.810 22.898	25.096 24.882	21.555 18.050	1.00 27.64 1.00 24.82
ATOM ATOM	2337 2338	CA LEU B	379	23.728	24.202	17.033	1.00 20.15
MOTA MOTA	2339 2340		379 379	24.979 25.339	23.625 22.469	17.606 17.307	1.00 20.62 1.00 20.65
ATOM ATOM	2341 2342		379 379	24.073 22.907	25.249 25.518	15.953 14.998	1.00 23.91 1.00 27.86
MOTA	2343	CD1 LEU B	379	23.168	26.790 24.332	14.196 14.054	1.00 26.74 1.00 30.30
MOTA MOTA	2344 2345	N GLU B	379 380	25.609	24.340	18.583	1.00 20.83
ATOM ATOM	2346 2347		380 380	26.837 26.566	23.816 22.557	19.195 19.997	1.00 27.24 1.00 25.34
MOTA MOTA	2348 2349	-	380 380	27.398 27.454	21.656 24.857	20.096 20.156	1.00 28.66 1.00 35.51
MOTA	2350	CG GLU B	380	28.304 27.717	24.298 23.925	21.268 22.601	1.00 45.36 1.00 52.55
ATOM ATOM	2351 2352	CD GLU B OE1 GLU B	380	26.687	24.467	23.075	1.00 55.73
MOTA MOTA	2353 2354	OE2 GLU B N SER B		28.296 25.400	23.028 22.493	23.260 20.619	1.00 58.84 1.00 19.01
ATOM ATOM	2355 2356	CA SER B C SER B	381	25.074 24.624	21.322 20.084	21.439 20.669	1.00 23.22 1.00 24.76
ATOM	2357	O SER B	381	24.823 23.905	18.963 21.791	21.145 22.336	1.00 27.36 1.00 28.20
ATOM ATOM	2358 2359	CB SER B	381	23.489	20.648	23.074	1.00 38.79 1.00 23.25
MOTA MOTA	2360 2361	N CYS B CA CYS B	382	23.990 23.404	20.220 19.066	19.529 18.844	1.00 22.65
MOTA MOTA	2362 2363	C CYS B O CYS B		24.073 23.538	18.600 17.569	17.567 17.123	1.00 20.33 1.00 17.89
MOTA	2364 2365	CB CYS B	382	21.960 21.899	19.551 20.543	18.367 16.890	1.00 21.13 1.00 23.58
MOTA MOTA	2366	N TRP B	383	25.182	19.230	17.120 15.756	1.00 20.02 1.00 20.25
MOTA MOTA	2367 2368	CA TRP B	383	25.567 25.893	18.848 17.398	15.544	1.00 18.10
ATOM ATOM	2369 2370	O TRP B		25.465 26.621	16.824 19.831	14.535 15.176	1.00 16.94 1.00 15.50
MOTA	2371 2372	CG TRP B	383	27.931 28.297	19.774 20.590	15.903 16.947	1.00 21.30 1.00 22.04
MOTA ATOM	2373	CD2 TRP B	383	29.040	18.897 20.278	15.667 17.340	1.00 21.19 1.00 23.74
ATOM ATOM	2374 2375	NE1 TRP B CE2 TRP B	383	29.577 30.039	19.223	16.606	1.00 24.97
ATOM ATOM	2376 2377	CE3 TRP B	383	29.270 31.274	17.851 18.571	14.766 16.630	1.00 20.19 1.00 20.39
ATOM ATOM	2378 2379	CZ3 TRP B CH2 TRP B	383	30.499 31.458	17.160 17.535	14.825 15.771	1.00 21.36 1.00 21.33
ATOM	2380	N MET B		26.697	16.818	16.461	1.00 14.48

ATOM 2381 CA MET B 384 27.004 15.391 16.204 1.00 14.60 ATOM 2383 0 MET B 384 25.586 13.590 15.552 1.00 14.76 ATOM 2386 C MET B 384 25.586 13.590 15.552 1.00 14.76 ATOM 2386 C MET B 384 28.416 13.468 16.921 1.00 18.83 ATOM 2385 C MET B 384 28.416 13.468 16.921 1.00 18.83 ATOM 2385 S MET B 384 28.416 13.468 16.921 1.00 18.83 ATOM 2388 N MET B 384 28.416 13.468 16.921 1.00 18.83 ATOM 2389 C MET B 384 29.367 13.468 16.921 1.00 18.83 ATOM 2389 C MET B 384 29.416 13.468 16.921 1.00 18.83 ATOM 2389 C MET B 385 24.841 14.861 17.239 1.00 15.97 ATOM 2390 C MET B 385 22.800 14.180 16.053 1.00 17.29 ATOM 2391 O MET B 385 22.800 14.180 16.053 1.00 17.29 ATOM 2392 C MET B 385 22.800 14.180 16.053 1.00 17.29 ATOM 2393 C MET B 385 22.822 13.80 13.74 19.055 1.00 24.52 ATOM 2393 C MET B 385 22.822 13.80 13.74 19.058 1.00 24.52 ATOM 2393 C MET B 385 22.80 14.180 16.053 1.00 17.76 ATOM 2393 C MET B 385 20.950 13.711 20.264 1.00 26.25 ATOM 2395 C MET B 385 12.292 13.70 12.00 15.97 ATOM 2395 C MET B 385 12.292 13.70 12.00 15.97 ATOM 2395 C MET B 385 12.292 13.70 12.00 12.76 ATOM 2395 C MET B 385 12.292 13.70 12.00 12.76 ATOM 2395 C MET B 385 12.292 13.71 10.00 16.01 ATOM 2395 C MET B 385 12.292 13.71 10.00 16.01 ATOM 2395 C MET B 386 12.292 13.70 19.00 19.37 3 ATOM 2400 C VAL B 386 12.292 13.30 13.71 12.00 12.07 17.66 ATOM 2401 C B VAL B 386 22.635 14.769 13.001 10.09 19.39 ATOM 2402 C MET M 388 12.293 14.769 13.001 10.09 19.39 ATOM 2401 C B VAL B 386 21.759 16.389 13.80 11.00 19.39 ATOM 2402 C MET B 387 24.632 14.769 13.001 11.00 16.32 ATOM 2405 C A LEU B 387 24.632 14.769 13.001 11.00 16.32 ATOM 2406 C B WAL B 386 21.759 16.389 13.868 1.00 17.16 ATOM 2401 C MET B 387 24.632 14.051 11.988 1.00 17.16 ATOM 2402 C MET B 387 24.632 14.051 11.988 1.00 17.00 14.39 ATOM 2403 C MET B 388 24.204 10.00 18.39 13.80 13.									
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ATOM 2442 C MET B 392 19.598 5.983 10.367 1.00 24.21 ATOM 2443 O MET B 392 19.317 4.873 9.923 1.00 22.83 ATOM 2444 CB MET B 392 20.246 6.277 12.746 1.00 23.62 ATOM 2445 CG MET B 392 21.386 6.151 13.732 1.00 24.52 ATOM 2446 SD MET B 392 20.748 6.520 15.414 1.00 28.58 ATOM 2447 CE MET B 392 22.377 6.498 16.202 1.00 28.75 ATOM 2448 N TRP B 393 18.950 7.099 9.981 1.00 22.28 ATOM 2449 CA TRP B 393 17.847 6.961 9.029 1.00 20.61 ATOM 2450 C TRP B 393 18.365 6.485 7.681 1.00 24.48 ATOM 2451 O TRP B 393 17.723 5.623 7.059 1.00 28.06 ATOM 2452 CB TRP B 393 17.227 8.374 8.916 1.00 23.80 ATOM 2453 CG TRP B 393 16.260 8.471 7.766 1.00 24.50 ATOM 2454 CD1 TRP B 393 16.431 9.098 6.579 1.00 24.58 ATOM 2455 CD2 TRP B 393 14.972 7.840 7.738 1.00 21.38 ATOM 2456 NEI TRP B 393 15.290 8.917 5.796 1.00 27.40	MOTA	2440	N	MET B	392				
ATOM 2443 O MET B 392 19.317 4.873 9.923 1.00 22.83 ATOM 2444 CB MET B 392 20.246 6.277 12.746 1.00 23.62 ATOM 2445 CG MET B 392 21.386 6.151 13.732 1.00 24.52 ATOM 2446 SD MET B 392 20.748 6.520 15.414 1.00 28.58 ATOM 2447 CE MET B 392 22.377 6.498 16.202 1.00 28.75 ATOM 2448 N TRP B 393 18.950 7.099 9.981 1.00 22.28 ATOM 2449 CA TRP B 393 17.847 6.961 9.029 1.00 20.61 ATOM 2450 C TRP B 393 18.365 6.485 7.681 1.00 24.48 ATOM 2451 O TRP B 393 17.723 5.623 7.059 1.00 28.06 ATOM 2452 CB TRP B 393 17.227 8.374 8.916 1.00 23.80 ATOM 2453 CG TRP B 393 16.260 8.471 7.766 1.00 24.50 ATOM 2454 CD1 TRP B 393 16.431 9.098 6.579 1.00 24.58 ATOM 2455 CD2 TRP B 393 14.972 7.840 7.738 1.00 21.38 ATOM 2456 NEI TRP B 393 15.290 8.917 5.796 1.00 27.40									
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ATOM 2448 N TRP B 393 18.950 7.099 9.981 1.00 22.28 ATOM 2449 CA TRP B 393 17.847 6.961 9.029 1.00 20.61 ATOM 2450 C TRP B 393 18.365 6.485 7.681 1.00 24.48 ATOM 2451 O TRP B 393 17.723 5.623 7.059 1.00 28.06 ATOM 2452 CB TRP B 393 17.227 8.374 8.916 1.00 23.80 ATOM 2453 CG TRP B 393 16.260 8.471 7.766 1.00 24.50 ATOM 2454 CD1 TRP B 393 16.431 9.098 6.579 1.00 24.58 ATOM 2455 CD2 TRP B 393 14.972 7.840 7.738 1.00 21.38 ATOM 2456 NE1 TRP B 393 15.290 8.917 5.796 1.00 27.40							6.520		
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ATOM 2453 CG TRP B 393 16.260 8.471 7.766 1.00 24.50 ATOM 2454 CD1 TRP B 393 16.431 9.098 6.579 1.00 24.58 ATOM 2455 CD2 TRP B 393 14.972 7.840 7.738 1.00 21.38 ATOM 2456 NE1 TRP B 393 15.290 8.917 5.796 1.00 27.40	MOTA	2451	0						
ATOM 2454 CD1 TRP B 393 16.431 9.098 6.579 1.00 24.58 ATOM 2455 CD2 TRP B 393 14.972 7.840 7.738 1.00 21.38 ATOM 2456 NE1 TRP B 393 15.290 8.917 5.796 1.00 27.40		2452							
ATOM 2455 CD2 TRP B 393 14.972 7.840 7.738 1.00 21.38 ATOM 2456 NEI TRP B 393 15.290 8.917 5.796 1.00 27.40									
ATOM 2456 NE1 TRP B 393 15.290 8.917 5.796 1.00 27.40									
ATOM 2457 CE2 TRP B 393 14.391 8.154 6.503 1.00 28.66	ATOM	2456	NE1	TRP E	393	15.290	8.917		1.00 27.40
	MOTA	2457	CE2	TRP E	393	14.391	8.154	6.503	1.00 28.66

ATOM	2458	CE3	TRP B 39		14.267	7.037	8.657	1.00 24.75
MOTA ATOM	2459 2460	CZ2 CZ3	TRP B 39	3	13.124	7.673 6.566	6.163 8.295	1.00 28.29
MOTA MOTA	2461 2462	CH2 N	TRP B 39 ARG B 39	4	12.460 19.505	6.901 6.966	7.048 7.186	1.00 27.45 1.00 23.13
ATOM ATOM	2463 2464	CA C	ARG B 39		20.018 20.358	6.491 5.007	5.889 5.979	1.00 24.56 1.00 26.56
MOTA MOTA	2465 2466	O CB	ARG B 39		20.390 21.306	4.287 7.218	4.973 5.445	1.00 29.56 1.00 23.42
MOTA MOTA	2467 2468	CG CD	ARG B 39	4	21.074 22.315	8.645 9.317	4.950 4.420	1.00 23.53 1.00 26.61
MOTA	2469	NE	ARG B 39	4	23.421	9.413	5.344	1.00 23.76
ATOM ATOM	2470 2471		ARG B 39	4	23.630	10.344	6.457	1.00 22.67
MOTA MOTA	2472 2473	NH2 N	SER B 39	5	24.719 20.764	10.304 4.502	7.022 7.115	1.00 22.50 1.00 23.85
ATOM ATOM	2474 2475	CA C	SER B 39		21.176 20.068	3.121 2.181	7.281 7.720	1.00 23.86 1.00 24.73
MOTA MOTA	2476 2477	O CB	SER B 39 SER B 39		20.347 22.242	1.019 3.119	7.877 8.389	1.00 30.38 1.00 25.71
ATOM ATOM	2478 2479	OG N	SER B 39	5	23.323	3.973	8.015 7.857	1.00 27.34 1.00 26.38
MOTA	2480	CA	ILE B 39	6	17.781 17.402	1.858	8.483 7.714	1.00 28.13 1.00 34.05
ATOM ATOM	2481 2482	C	ILE B 39	6	17.107	-0.388	8.375	1.00 36.61
MOTA MOTA	2483 2484	CB CG1	ILE B 39	6	16.621 15.694	2.803 2.324	8.794 9.911	1.00 31.52 1.00 35.64
ATOM ATOM	2485 2486	CG2 CD1			15.806 14.689	3.086 3.407	7.517 10.306	1.00 35.73 1.00 34.63
MOTA ATOM	2487 2488	N CA	ASP B 39		17.500 17.150	0.642 -0.561	6.395 5.623	1.00 30.79 1.00 35.31
MOTA MOTA	2489 2490	C O	ASP B 39	7	18.390 18.306	-1.323 -2.164	5.207 4.290	1.00 39.39 1.00 41.34
ATOM	2491 2492	CB CG	ASP B 39	7	16.327 14.950	-0.097 0.392	4.413	1.00 36.48 1.00 38.41
ATOM ATOM	2493	OD1	ASP B 39	7	14.307	-0.118	5.739	1.00 42.42
MOTA MOTA	2494 2495	N	ASP B 39 HIS B 39	8	14.411	1.326 -1.140	4.186 5.795	1.00 43.72
ATOM ATOM	2496 2497	CA C	HIS B 39	8	20.800 21.512	-1.831 -2.367	5.448 6.666	1.00 33.99 1.00 32.82
MOTA MOTA	2498 2499	O CB	HIS B 39		22.577 21.773	-1.931 -0.937	7.129 4.621	1.00 31.78 1.00 32.15
ATOM ATOM	2500 2501	CG ND1	HIS B 39		21.111 20.631	-0.344 0.946	3.416 3.405	1.00 39.99 1.00 47.14
ATOM ATOM	2502 2503	CD2	HIS B 39	8	20.791 20.049	-0.849 1.222	2.203 2.255	1.00 40.00 1.00 45.76
MOTA MOTA	2504 2505	NE2 N		8	20.127	0.138	1.505	1.00 45.33 1.00 32.19
MOTA	2506	CA	PRO B 39	9	21.603	-4.117 -4.448	8.377 8.135	1.00 31.87 1.00 29.07
ATOM ATOM	2507 2508	0	PRO B 39	9	23.508	-4.725	7.021	1.00 34.53
MOTA MOTA	2509 2510	CB CG	PRO B 39	9	20.69 4 19.681	-5.275 -5.366	8.753 7.687	1.00 35.73 1.00 34.94
ATOM ATOM	2511 2512	CD N	PRO B 39	0	19.797 23.871	-4.199 -4.247	6.757 9.145	1.00 34.15 1.00 24.75
MOTA MOTA	2513 2514	CA C	GLY B 40		25.300 26.084	-4.470 -3.377	9.167 8.472	1.00 31.04 1.00 26.14
MOTA MOTA	2515 2516	N O	GLY B 40 LYS B 40		27.310 25.464	-3.481 -2.344	8.447 7.923	1.00 33.44 1.00 27.98
ATOM ATOM	2517 2518	CA C	LYS B 40 LYS B 40		26.215 25.856	-1.291 0.115	7.249 7.788	1.00 27.46 1.00 27.45
ATOM ATOM	2519 2520	O CB	LYS B 40	1	24.718 25.821	0.303 -1.148	8.222 5.776	1.00 24.43 1.00 27.97
ATOM ATOM	2521 2522	CG CD	LYS B 40	1	26.773 26.112	-1.932 -3.245	4.848 4.546	1.00 40.85 1.00 44.41
MOTA	2523	CE	LYS B 40	1	26.659	-3.895	3.278	1.00 47.73 1.00 52.90
ATOM ATOM	2524 2525	NZ N	LYS B 40 LEU B 40	2	25.668 26.821	-4.872 1.008	7.581	1.00 26.26
MOTA MOTA	2526 2527	CA C	LEU B 40	2	26.566 26.626	2.427	7.952 6.668	1.00 24.76 1.00 21.76
MOTA MOTA	2528 2529	O CB	LEU B 40	2	27.723 27.563	3.311 2.905	6.078 9.012	1.00 25.19 1.00 25.71
ATOM ATOM	2530 2531	CG CD1	LEU B 40		27.398 28.525	2.307 2.816	10.426 11.330	1.00 24.37 1.00 26.93
ATOM ATOM	2532 2533		LEU B 40 ILE B 40	2	26.031 25.500	2.617 3.763	11.052 6.196	1.00 27.97 1.00 21.80
ATOM	2534	CA	ILE B 40		25.509	4.564	4.969	1.00 22.69

ATOM ATOM	2535 2536	C ILE B 403 O ILE B 403	25.895 25.026	6.009 6.891	5.309 5.417	1.00 23.32 1.00 23.36
MOTA MOTA MOTA	2537 2538 2539	CB ILE B 403 CG1 ILE B 403 CG2 ILE B 403	24.097 23.581 24.026	4.548 3.119 5.326	4.338 4.187 3.049	1.00 24.13 1.00 32.41 1.00 24.82
MOTA MOTA	2540 2541	CD1 ILE B 403 N PHE B 404	24.551 27.176 27.584	2.152 6.294 7.683	3.559 5.453 5.787	1.00 38.99 1.00 25.16 1.00 22.64
ATOM ATOM ATOM	2542 2543 2544	C PHE B 404 O PHE B 404	27.182 26.742	8.616 9.749	4.666 4.825	1.00 24.43 1.00 24.33
ATOM ATOM ATOM	2545 2546 2547	CB PHE B 404 CG PHE B 404 CD1 PHE B 404	29.081 29.441 29.764	7.725 7.288 5.968	6.047 7.436 7.693	1.00 20.55 1.00 21.35 1.00 22.55
ATOM ATOM ATOM	2548 2549 2550	CD2 PHE B 404 CE1 PHE B 404 CE2 PHE B 404	29.344 30.054 29.650	8.164 5.542 7.710	8.521 8.971 9.792	1.00 18.14 1.00 22.47 1.00 20.41
ATOM ATOM ATOM	2551 2552 2553	CZ PHE B 404 N ALA B 405 CA ALA B 405	29.989 27.352 26.933	6.406 8.116 8.855	10.037 3.432 2.229	1.00 23.05 1.00 21.86 1.00 29.53
ATOM ATOM ATOM	2554 2555 2556	C ALA B 405 O ALA B 405 CB ALA B 405	26.589 27.088 28.056	7.823 6.694 9.769	1.170 1.257 1.776	1.00 29.06 1.00 29.31 1.00 30.10
ATOM ATOM	2557 2558	N PRO B 406 CA PRO B 406	25.908 25.507 26.686	8.200 7.243 6.453	0.102 -0.932 -1.442	1.00 32.86 1.00 34.92 1.00 33.76
MOTA MOTA ATOM	2559 2560 2561	O PRO B 406 CB PRO B 406	26.578 24.815 24.140	5.239 8.126 9.155	-1.718 -1.979 -1.108	1.00 30.44 1.00 37.23 1.00 38.70
ATOM ATOM ATOM	2562 2563 2564	CG PRO B 406 CD PRO B 406 N ASP B 407	25.224 27.861 29.049	9.508 7.059 6.341	-0.090 -1.609 -2.059	1.00 32.36 1.00 32.30 1.00 33.54
ATOM ATOM ATOM	2565 2566 2567	CA ASP B 407 C ASP B 407 O ASP B 407	30.052 31.198 29.683	6.082 5.716 7.099	-0.947 -1.205 -3.231	1.00 31.74 1.00 28.74 1.00 40.47
ATOM ATOM ATOM	2568 2569 2570	CB ASP B 407 CG ASP B 407 OD1 ASP B 407	30.508 30.218	6.255 5.039 6.821	-4.174 -4.303 -4.779	1.00 48.65 1.00 51.06 1.00 47.04
MOTA MOTA MOTA	2571 2572 2573	OD2 ASP B 407 N LEU B 408 CA LEU B 408	31.459 29.675 30.615	6.252 5.993 5.074	0.333 1.448 2.398	1.00 29.67 1.00 24.21 1.00 27.05
MOTA MOTA MOTA	2574 2575 2576	C LEU B 408 O LEU B 408 CB LEU B 408	29.831 29.170 31.020 32.085	5.478 7.259 7.094	3.366 2.189 3.287	1.00 27.03 1.00 28.32 1.00 25.91 1.00 24.69
MOTA MOTA MOTA	2577 2578 2579	CG LEU B 408 CD1 LEU B 408 CD2 LEU B 408	32.083 33.332 32.461 29.791	6.409 8.417 3.801	2.725 3.938 2.020	1.00 31.78 1.00 28.24 1.00 27.88
MOTA MOTA MOTA	2580 2581 2582	N VAL B 409 CA VAL B 409 C VAL B 409	29.012 29.998	2.803 1.872 1.161	2.773 3.455 2.787	1.00 26.77 1.00 30.15 1.00 30.60
ATOM ATOM ATOM	2583 2584 2585	O VAL B 409 CB VAL B 409 CG1 VAL B 409	28.159 27.482	1.992 0.811	1.775 2.453 1.070	1.00 31.29 1.00 29.21 1.00 27.53
MOTA MOTA MOTA	2586 2587 2588	CG2 VAL B 409 N LEU B 410 CA LEU B 410	27.139 30.037 30.973	2.874 1.887 1.134	4.763 5.549 6.252	1.00 27.33 1.00 27.22 1.00 27.72 1.00 32.86
ATOM ATOM ATOM	2589 2590 2591	C LEU B 410 O LEU B 410 CB LEU B 410	30.376 29.347 31.704	-0.077 -0.047 1.959 3.213	6.917 6.625 6.106	1.00 32.00 1.00 30.92 1.00 27.54 1.00 30.97
ATOM ATOM ATOM	2592 2593 2594	CG LEU B 410 CD1 LEU B 410 CD2 LEU B 410	32.422 33.120 33.403	3.953 2.827 -1.196	7.234 4.982 6.010	1.00 31.37 1.00 27.37 1.00 30.35
ATOM ATOM ATOM	2595 2596 2597	N ASP B 411 CA ASP B 411 C ASP B 411	31.076 30.653 31.102 32.149	-2.412 -2.276 -1.691	6.717 8.164 8.457	1.00 33.84 1.00 30.61 1.00 30.55
ATOM ATOM ATOM	2598 2599 2600 2601	O ASP B 411 CB ASP B 411 CG ASP B 411 OD1 ASP B 411	31.307 30.415 30.302	-3.645 -4.056 -3.357	6.059 4.899 3.883	1.00 39.46 1.00 47.55 1.00 52.15
MOTA MOTA MOTA	2602 2603	OD2 ASP B 411 N ARG B 412 CA ARG B 412	29.773 30.311 30.622	-5.106 -2.868 -2.877	5.083 9.050 10.474	1.00 58.50 1.00 29.95 1.00 33.26
MOTA MOTA MOTA	2604 2605 2606 2607	C ARG B 412 O ARG B 412	32.082 32.791 29.688	-3.177 -2.445 -3.891	10.738 11.412 11.142	1.00 35.75 1.00 34.51 1.00 32.44
ATOM ATOM ATOM	2608 2609 2610	CG ARG B 412 CD ARG B 412	29.783 30.653 30.821	-3.893 -5.027 -5.015	12.664 13.176 14.633	1.00 37.89 1.00 44.63
MOTA MOTA	2611	440	31.756	-5.775	15.205	

ATOM	2612	NH1 ARG B 412 NH2 ARG B 412	31.941 32.507	-5.791 -6.553	16.516 14.425	1.00 47.65 1.00 48.50
ATOM ATOM ATOM	2613 2614 2615	NASP B 413 CA ASP B 413	32.629 33.995	-4.265 -4.708	10.155 10.311	1.00 34.38 1.00 37.43
ATOM ATOM	2616 2617	C ASP B 413 O ASP B 413	35.067 36.216	-3.763 -3.738	9.852 10.383 9.610	1.00 35.77 1.00 34.32 1.00 40.66
ATOM ATOM	2618 2619	CB ASP B 413 CG ASP B 413 OD1 ASP B 413	34.161 33.536 33.368	-6.089 -7.189 -7.006	10.460 11.691	1.00 48.67 1.00 47.59
ATOM ATOM ATOM	2620 2621 2622	OD1 ASP B 413 OD2 ASP B 413 N GLU B 414	33.192 34.720	-8.253 -2.781	9.876 8.992	1.00 51.36 1.00 35.67
ATOM ATOM	2623 2624	CA GLU B 414 C GLU B 414	35.764 36.070	-1.812 -0.879	8.612 9.769	1.00 34.95
MOTA MOTA	2625 2626	O GLU B 414 CB GLU B 414	37.039 35.471	-0.107 -1.117	9.723 7.306 6.129	1.00 35.84 1.00 35.06 1.00 35.23
ATOM ATOM	2627 2628	CG GLU B 414 CD GLU B 414 OE1 GLU B 414	35.025 34.667 33.472	-1.983 -1.067 -0.896	4.959 4.675	1.00 35.23 1.00 38.62 1.00 36.28
ATOM ATOM ATOM	2629 2630 2631	OE2 GLU B 414 N GLY B 415	35.637 35.355	-0.530 -0.973	4.369	1.00 42.35 1.00 37.63
ATOM ATOM	2632 2633	CA GLY B 415 C GLY B 415	35.596 36.892	-0.212 -0.655	12.090	1.00 42.19 1.00 39.93
MOTA MOTA	2634 2635	O GLY B 415 N LYS B 416	37.534 37.442 38.725	0.065 -1.834 -2.262	13.534 12.419 12.965	1.00 36.09 1.00 40.99 1.00 39.11
MOTA MOTA MOTA	2636 2637 2638	CA LYS B 416 C LYS B 416 O LYS B 416	39.867 40.933	-1.387 -1.353	12.507 13.131	1.00 39.37 1.00 37.86
ATOM ATOM	2639 2640	CB LYS B 416 CG LYS B 416	38.996 38.051	-3.731 -4.656	12.591	1.00 45.05 1.00 46.63
MOTA MOTA	2641 2642	CD LYS B 416 CE LYS B 416	38.112 37.255 37.618	-6.062 -7.010 -6.901	12.770 13.607 15.056	1.00 50.30 1.00 55.85 1.00 57.31
ATOM ATOM ATOM	2643 2644 2645	NZ LYS B 416 N CYS B 417 CA CYS B 417	39.673 40.649	-0.609 0.299	11.441	1.00 42.91 1.00 38.32
ATOM ATOM	2646 2647	C CYS B 417 O CYS B 417	41.041 42.143	1.434 1.931	11.844 11.609	1.00 38.44
ATOM ATOM	2648 2649	CB CYS B 417 SG CYS B 417	40.175 39.633 40.239	0.938 -0.209 1.960	9.589 8.291 12.775	1.00 44.73 1.00 49.95 1.00 28.66
ATOM ATOM ATOM	2650 2651 2652	N VAL B 418 CA VAL B 418 C VAL B 418	40.239 40.670 40.658	3.094 2.691	13.606 15.095	1.00 25.58 1.00 23.05
ATOM ATOM	2653 2654	O VAL B 418 CB VAL B 418	39.612 39.598	2.113	15.416 13.406	1.00 27.29 1.00 28.69
ATOM ATOM	2655 2656	CG1 VAL B 418 CG2 VAL B 418 N GLU B 419	39.790 39.626 41.631	5.412 4.666 3.069	14.295 11.935 15.872	1.00 29.09 1.00 24.25 1.00 28.15
MOTA ATOM MOTA	2657 2658 2659	N GLU B 419 CA GLU B 419 C GLU B 419	41.604 40.285	2.736 3.190	17.304 17.969	1.00 31.89 1.00 33.35
ATOM ATOM	2660 2661	O GLU B 419 CB GLU B 419	39.950 42.779	4.368	17.887	1.00 28.30 1.00 37.11 1.00 40.40
MOTA MOTA	2662 2663	CG GLU B 419 CD GLU B 419 OE1 GLU B 419	43.069 44.152 44.530	2.956 3.719 4.850	19.406 20.136 19.758	1.00 40.40 1.00 49.85 1.00 53.97
ATOM ATOM ATOM	2664 2665 2666	OE2 GLU B 419 N GLY B 420	44.661 39.552	3.211 2.281	21.160 18.583	1.00 52.13 1.00 29.93
ATOM ATOM	2667 2668	CA GLY B 420 C GLY B 420	38.334 37.061	2.499 2.865 3.059	19.315 18.598 19.214	1.00 35.47 1.00 33.37 1.00 28.93
ATOM ATOM ATOM	2669 2670 2671		35.982 37.097 35.871	2.945	17.248 16.566	1.00 27.21 1.00 27.21
ATOM ATOM	2672 2673	C ILE B 421 O ILE B 421	34.832 33.631	2.295 2.452	16.473 16.301	1.00 28.34 1.00 26.36
MOTA MOTA	2674 2675	CG1 ILE B 421	36.197 35.169 36.146	3.956 5.104 2.861	15.177 14.907 14.124	1.00 26.54 1.00 22.99 1.00 28.24
MOTA MOTA	2676 2677 2678	CD1 ILE B 421	35.566 35.319	5.887 1.030	13.638 16.567	1.00 20.02 1.00 30.64
MOTA MOTA	2679 2680	CA LEU B 422 C LEU B 422	34.437 33.300	-0.125 -0.064	16.473 17.501 17.176	
MOTA ATOM	2681 2682 2683	CB LEU B 422	32.160 35.253 34.523	-0.392 -1.426 -2.640	16.541	1.00 33.58
MOTA ATOM ATOM	2684 2685	CD1 LEU B 422 CD2 LEU B 422	34.221 35.363	-2.456 -3.917	14.475 16.121	1.00 36.28 1.00 38.73
MOTA MOTA	2686 2687	N GLU B 423 CA GLU B 423	33.538 32.522 31.482	0.549	19.732	1.00 32.02
MOTA	2688	, , , , , , , , , , , , , , , , , , , ,				

ATOM 2755 CB THR B 431 20.930 3.480 18.065 1.00 25.05	ATOM 27 ATOM 2	594 OE2 595 CA 596 CA 597 OB 597 OB 598 CB 599 CB 5	GLU B 423 ILE B 424 ILE B 425 PHE B 426 ASP B 427 MET B 428 LEU B 429 LEU B 430 ALA B 430 ALA B 430 ALA B 431 THR B 431	33.10.10.20.20.33.33.33.33.33.33.33.33.33.33.33.33.33	$\begin{array}{c} 62330796416896247835240809617936445162268854065608218639634860762330779641689626762307379641109586762307379641689626989379986762229759133455686387988048607623363333455652100011314230000112222224323224555610048779804860762231000113142230000000000000000000000000$	19.1.2.2.3.3.4.2.4.0.3.2.2.2.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	1.00 29.37 1.00 37.08 1.00 50.36 1.00 59.51 1.00 60.42 1.00 27.62 1.00 26.62 1.00 25.97 1.00 26.20 1.00 31.88 1.00 27.72 1.00 34.17 1.00 25.62 1.00 26.92 1.00 26.92 1.00 27.06 1.00 27.06 1.00 27.06 1.00 27.06 1.00 27.33 1.00 27.00 1.00 27.33 1.00 27.00 1.00 28.08 1.00 29.20 1.00 29.20 1.00 25.65 1.00 27.00 1.00 28.08 1.00 29.20 1.00 28.08 1.00 29.25 1.00 33.37 1.00 29.81 1.00 29.81 1.00 29.81 1.00 29.81 1.00 29.88 1.00 23.33 1.00 23.33 1.00 23.33 1.00 23.33 1.00 23.33 1.00 23.33 1.00 23.33 1.00 23.33 1.00 23.37 1.00 23.37 1.00 23.37 1.00 26.62 1.00 26.67 1.00 26.72 1.00 27.79 1.00 29.75 1.00 29.75 1.00 29.75 1.00 29.77 1.00 29.77
ATOM 2756 OG1 THR B 431 21.794 3.282 19.200 1.00 29.32	ATOM 27	748 C 749 O 750 CB 751 N 752 CA 753 C 754 O 755 CB	ALA B 430 ALA B 430 ALA B 430 THR B 431 THR B 431 THR B 431 THR B 431	21.126 19.964 22.972 21.416 20.314 19.545 18.306	-0.148 -0.536 -1.390 1.167 2.136 2.182 2.273	17.507 17.409 18.715 17.562 17.631 16.320 16.230	1.00 29.75 1.00 23.47 1.00 27.79 1.00 29.22 1.00 31.78 1.00 27.18 1.00 24.27

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ATOM ATOM ATOM ATOM ATOM ATOM	2766 2767 2768 2769 2770 2771	CA C O CB OG N		33 33 33 33	18.269 17.002 15.971 18.990 20.020 17.085	-1.504 -1.256 -1.823 -2.672 -3.015 -0.514	14.469 15.252 14.883 15.172 14.264 16.358	1.00 1.00 1.00 1.00	29.37 28.81 32.18 31.10 27.47 29.90		пооои
MOTA MOTA	2772 2773	CA C	ARG B 4	34	15.871 14.859	-0.260 0.554	17.147 16.363	1.00			C
ATOM ATOM	2774 2775	O CB	ARG B 4	34	13.636 16.264	0.377	16.433	1.00	32.44		0 C
ATOM ATOM ATOM	2776 2777 2778	CG CD NE	ARG B 4 ARG B 4 ARG B 4	34	15.008 14.064 13.120	0.863 0.035 -0.900	19.162 19.924 19.363	1.00			C N
ATOM ATOM ATOM	2779 2780	CZ NH1	ARG B 4 ARG B 4	34	11.922 11.626	-1.055 -0.316	19.948		56.45		C N
ATOM ATOM	2781 2782	NH2 N	ARG B 4 PHE B 4	34	11.041 15.369	-1.928 1.546	19.478 15.604	1.00			N N
MOTA MOTA	2783 2784	CA C	PHE B 4 PHE B 4		14.458 13.872	2.349 1.440	14.785 13.694		28.71		C
MOTA MOTA	2785 2786	O CB		35	12.697 15.140	1.557	13.389		27.08		0 0
ATOM ATOM	2787 2788		PHE B 4 PHE B 4 PHE B 4	35	15.381 14.324 16.659	4.716 5.372 5.107	15.144 15.755 15.458		25.10 27.67 24.73		000
MOTA MOTA MOTA	2789 2790 2791	CE1	PHE B 4	35	14.541 16.905	6.418 6.177	16.628 16.313	1.00	23.09 28.72		0 0
MOTA MOTA	2792 2793	CZ N	PHE B 4	35	15.844 14.642	6.840	16.893 13.166	1.00	24.31 29.19		C N
MOTA MOTA	279 4 2795	CA C	ARG B 4	36	14.127 13.033	-0.445 -1.316	12.165 12.792	1.00			C
MOTA MOTA	2796 2797	O CB	ARG B 4	36	11.960 15.241	-1.486 -1.335	12.193	1.00	29.11		0 0
ATOM ATOM ATOM	2798 2799 2800	CG CD NE	ARG B 4 ARG B 4 ARG B 4		14.762 15.848 17.060	-2.349 -3.424 -2.694	10.518 10.281 9.959	1.00	31.92. 34.42 41.51		С С И
ATOM ATOM ATOM	2801 2802	CZ	ARG B 4 ARG B 4	36	18.212 18.314	-2.827 -3.685	10.627	1.00	39.46 36.97		C
MOTA MOTA	2803 2804		ARG B 4 GLU B 4	36	19.220 13.276	~2.051 ~1.754	10.264 14.024	1.00	40.73 32.14		N
MOTA MOTA	2805 2806	CA C		37	12.273 10.983	-2.605 -1.853	14.702 14.954	1.00	34.87 33.57		C C
ATOM ATOM ATOM	280 7 2808 2809	O CB CG		.37 !37 !37	9.862 12.871 13.862	-2.362 -3.185 -4.312	14.906 15.973 15.686	1.00	33.90 40.30 49.69	÷	0 0
ATOM ATOM	2810 2811	CD	GLU B 4	37 37	14.896 14.545	-4.501 -4.433	16.779 17.989	1.00	57.75 58.57		0
ATOM ATOM	2812 2813	OE2 N	GLU B 4	37 38	16.079 11.077	-4.729 -0.550	16.401 15.238	1.00	58.23 29.78		И
ATOM ATOM	2814 2815	CA C	LEU B 4	38	9.938 9.291	0.307	15.445 14.145	1.00	29.52 26.28		0 0
ATOM ATOM ATOM	2816 2817 2818	O CB CG	LEU B 4 LEU B 4	138	8.235 10.391 10.412	1.397 1.566 1.409	14.169 16.229 17.743	1.00	27.56 33.11 39.39		000
ATOM ATOM	2819 2820	CD1	LEU B 4	138	11.110	2.613	18.358 18.276	1.00	40.38		c
ATOM ATOM	2821 2822	N CA	LYS B 4	139 139	9.903 9.414	0.495 0.881	12.993 11.690	1.00	28.35	,	N C
ATOM ATOM	2823 2824	0	LYS B 4 LYS B 4	139	9.217 8.169	2.408 2.940 0.164	11.606 11.257 11.308	1.00	25.44 23.93 30.79		000
MOTA MOTA MOTA	2825 2826 2827	CB CG CD	LYS B 4	139	8.109 8.369 7.060	-1.324 -2.021	10.989	1.00	36.88 38.92		000
ATOM ATOM	2828 2829	CE NZ	LYS B 4	139	7.212 6.192	-3.540 -4.182	10.639 9.749	1.00	44.57 50.78		C N
ATOM ATOM	2830 2831	N CA	LEU B 4	140	10.270	3.104 4.570	12.031	1.00	26.36		N C
ATOM ATOM ATOM	2832 2833 2834	C O CB	LEU B 4	140	9.932 10.571 11.749	5.079 4.653 5.038	10.654 9.672 12.352	1.00	24.55 26.01 25.25		000
MOTA MOTA	2835 2836	CG CD1	LEU B 4	140 140	11.887 11.161	6.587 7.175	12.440 13.632	1.00	23.71 19.69		C
ATOM ATOM	2837 2838	N	GLN B	141	13.377 8.957	6.923 5.976	12.400	1.00	23.09		C N C
MOTA ATOM ATOM	2839 2840 2841	CA C O	GLN B 4 GLN B 4	141	8.526 9.260 9.778	6.530 7.828 8.510	9.294 8.987 9.885	1.00	27.60 27.63 23.77		0 0 0
MOTA	2842	СВ	GLN B		7.025	6.818	9.355		24.97		Ċ

ATOM ATOM ATOM ATOM ATOM	2843 2844 2845 2846 2847	CD CONE2	GLN B GLN B GLN B GLN B HIS B	441 441 441	6.217 6.418 5.880 7.165 9.306	5.554 4.515 4.786 3.441 8.219	9.658 8.568 7.490 8.802 7.731	1.00 33.92 1.00 42.79 1.00 49.00 1.00 47.31 1.00 26.50
ATOM ATOM ATOM ATOM ATOM ATOM	2848 2849 2850 2851 2852 2853	C I O I CB I CG I ND1 I	HIS B HIS B HIS B HIS B HIS B	442 442 442 442 442	10.894 12.242	9.423 10.660 11.418 9.539 10.622 10.727	7.313 8.021 8.526 5.768 5.225 5.455	1.00 29.05 1.00 24.51 1.00 25.18 1.00 31.83 1.00 33.00 1.00 34.94
ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859	CE1 II NE2 II N II CA II	HIS B HIS B HIS B LYS B LYS B	442 442 443 443 443	10.581 12.715 11.725 8.232 7.739 8.036 8.109	11.678 11.799 12.403 10.903 12.085 12.057 13.134	4.438 4.844 4.214 8.167 8.832 10.336 10.934	1.00 34.09 1.00 34.42 1.00 31.06 1.00 23.03 1.00 23.66 1.00 22.88 1.00 19.97
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2860 2861 2862 2863 2864 2865 2866	CB I CG I CD I CE I	LYS B	443 443 443 443 443	6.246 6.009 4.505 4.304 2.834 8.115	12.410 12.667 12.888 13.255 13.347 10.869	8.563 7.064 6.794 5.318 4.991 10.920	1.00 26.75 1.00 31.03 1.00 33.11 1.00 45.60 1.00 46.60 1.00 21.21
ATOM ATOM ATOM ATOM ATOM ATOM	2867 2868 2869 2870 2871 2872	CA CCB CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	GLU B GLU B GLU B GLU B GLU B GLU B	444 444 444 444	8.434 9.919 10.279 8.275 6.788 6.612	10.812 11.207 12.011 9.389 8.971 7.492	12.379 12.511 13.370 12.932 12.978 13.273	1.00 18.69 1.00 21.45 1.00 19.10 1.00 21.53 1.00 25.64 1.00 24.94
ATOM ATOM ATOM ATOM ATOM ATOM	2873 2874 2875 2876 2877 2878	OE1 COE2 COE2 COE2 COE2 COE2 COE2 COE2 COE2	GLU B GLU B TYR B TYR B TYR B TYR B	444 444 445 445 445	7.483 5.585 10.776 12.195 12.440 13.283	6.666 7.165 10.716 11.016 12.531 13.083	12.982 13.884	1.00 24.73 1.00 26.20 1.00 20.35 1.00 23.29 1.00 25.07 1.00 22.54
ATOM ATOM ATOM ATOM ATOM ATOM	2879 2880 2881 2882 2883 2884	CB CG CD1 CD2 CE1	TYR B	445 445 445 445 445	12.905 14.154 15.329 14.166 16.486 15.346	10.299 10.963 10.898 11.619 11.480 12.173	10.462 9.926 10.683 8.682 10.236 8.238	1.00 23.22 1.00 25.12 1.00 26.68 1.00 25.12 1.00 26.30 1.00 25.76
MOTA MOTA MOTA MOTA MOTA MOTA	2885 2886 2887 2888 2889 2890	OH CACO	LEU B LEU B	445 446 446 446 446	16.471 17.680 11.689 11.848 11.530 12.237	12.145 12.652 13.181 14.616 15.345 16.275	9.018 8.602 10.602 10.461 11.760 12.130	1.00 25.11 1.00 32.57 1.00 22.15 1.00 21.36 1.00 19.59 1.00 19.63
MOTA MOTA MOTA MOTA MOTA	2891 2892 2893 2894 2895 2896	CG CD1 CD2 N CA	LEU B LEU B LEU B LEU B CYS B	446 446 446 447 447	11.156 10.056 12.564 10.480 10.110	15.194 14.620 15.081 14.978 14.946 15.624	7.956 6.999 7.528 12.463 13.696	1.00 25.43 1.00 29.92 1.00 27.33 1.00 18.44 1.00 16.12
ATOM ATOM ATOM ATOM ATOM	2897 2898 2899 2900 2901 2902	O CB SG N CA	CYS B CYS B CYS B CYS B VAL B	447 447 447 448 448	11.221 11.512 8.771 7.391 11.621 12.621	15.376 16.262 15.099 15.722 14.089	14.748 15.514 14.240 13.134 14.879 15.948	1.00 18.28 1.00 17.67 1.00 17.37 1.00 21.76 1.00 19.27 1.00 18.83 1.00 21.13
ATOM ATOM ATOM ATOM ATOM ATOM	2903 2904 2905 2906 2907 2908	O CB CG1 CG2 N	VAL B VAL B VAL B VAL B VAL B LYS B LYS B	448 448 448 449	13.905 14.520 12.846 13.955 11.498 14.355 15.601	14.585 15.072 12.292 11.953 11.659 14.647 15.404	15.713 16.666 15.982 16.955 16.336 14.437 14.161	1.00 21.13 1.00 19.08 1.00 25.15 1.00 29.45 1.00 21.83 1.00 18.13 1.00 17.61
ATOM ATOM ATOM ATOM ATOM ATOM	2909 2910 2911 2912 2913 2914 2915	C O CB CG CD	LYS B LYS B LYS B LYS B LYS B LYS B	449 449 449 449	15.801 15.428 16.375 16.004 17.350 17.812 16.863	16.871 17.491 15.195 15.751 15.029 15.527	14.558 15.076 12.699 12.324 11.026 9.915	1.00 17.01 1.00 20.56 1.00 19.67 1.00 17.60 1.00 20.54 1.00 24.11 1.00 23.93
ATOM ATOM ATOM ATOM ATOM	2915 2916 2917 2918 2919	NZ N CA	LYS B ALA B ALA B ALA B	449 450 450	17.613 14.262 14.037 14.000	15.786 17.461 18.851 18.929	8.664 14.244 14.648 16.174	1.00 28.21 1.00 16.41 1.00 18.74 1.00 18.63

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MOTA	2920	0	ALA B 450	14.510	19.892	16.771	1.00 20.03
MOTA	2921	CB	ALA B 450	12.731	19.415	14.050	1.00 17.47
ATOM	2922	N	MET B 451	13.495	17.931	16.883	1.00 17.51
ATOM	2923	CA	MET B 451	13.502	17.947	18.329	1.00 18.37
				14.924	17.871	18.885	1.00 17.64
ATOM	2924	C					
MOTA	2925	0_	MET B 451	15.198	18.573	19.865	
ATOM	2926	CB	MET B 451	12.672	16.774	18.885	1.00 19.94
ATOM	2927	CG	MET B 451	11.204	17.051	18.498	1.00 27.03
MOTA	2928	SD	MET B 451	10.035	15.686	18.784	1.00 32.64
MOTA	2929	CE	MET B 451	10.922	14.995	20.161	1.00 27.86
ATOM	2930	N	ILE B 452	15819	17.142	18.234	1.00 17.42
ATOM	2931	CA	ILE B 452	17.198	17.097	18.705	1.00 18.96
MOTA	2932	С	ILE B 452	17.806	18.479	18.667	1.00 21.80
ATOM	2933	0	ILE B 452	18.436	18.991	19.621	1.00 23.30
MOTA	2934	CB	ILE B 452	17.989	16.101	17.833	1.00 19.88
MOTA	2935	CG1	ILE B 452	17.450	14.701	18.126	1.00 21.76
ATOM	2936	CG2	ILE B 452	19.497	16.199	18.120	1.00 18.62
ATOM	2937	CD1	ILE B 452	18.112	13.672	17.197	1.00 22.87
ATOM	2938	N	LEU B 453	17.579	19.179	17.567	1.00 18.54
MOTA	2939	CA	LEU B 453	18.132	20.547	17.476	1.00 17.52
	2940	C	LEU B 453	17.574	21.466	18.543	1.00 22.82
ATOM				18.276	22.272	19.181	1.00 20.30
MOTA	2941	0	-	17.717	21.154	16.125	1.00 20.30
MOTA	2942	CB				15.950	1.00 13.07
ATOM	2943	CG	LEU B 453	18.042	22.652		
ATOM	2944	CD1	LEU B 453	19.517	23.012	15.887	1.00 22.50
MOTA	2945	CD2	LEU B 453	17.374	23.159	14.663	1.00 22.28
ATOM	2946	N	LEU B 454	16.234	21.381	18.711	1.00 17.98
MOTA	2947	CA	LEU B 454	15.634	22.323	19.641	1.00 21.35
MOTA	2948	C	LEU B 454	15.780	22.004	21.104	1.00 23.61
ATOM	2949	0	LEU B 454	15.595	22.945	21.897	1.00 25.52
ATOM	2950	CB	LEU B 454	14.140	22.453	19.270	1.00 20.71
MOTA	2951	CG	LEU B 454	13.833	22.975	17.887	1.00 20.30
MOTA	2952	CD1	LEU B 454	12.347	22.881	17.610	1.00 23.20
MOTA	2953	CD2	LEU B 454	14.317	24.430	17.695	1.00 21.88
ATOM	2954	N	ASN B 455	16.062	20.765	21.445	1.00 21.94
MOTA	2955	CA	ASN B 455	16.081	20.351	22.852	1.00 28.13
ATOM	2956	C	ASN B 455	17.425	19.900	23.406	1.00 27.63
MOTA	2957	Ō	ASN B 455	17.491	19.519	24.587	1.00 38.60
MOTA	2958	CB	ASN B 455	15.361	18.967	22.776	1.00 33.09
MOTA	2959	CG	ASN B 455	15.175	18.151	24.024	1.00 46.53
ATOM	2960	OD1		15.470	16.948	24.077	1.00 43.08
MOTA	2961	ND2		14.708	18.808	25.080	1.00 40.09
ATOM	2962	N	SER B 456	18.439	19.912	22.560	1.00 24.13
ATOM	2963	CA	SER B 456	19.638	19.252	23.128	1.00 30.74
MOTA	2964	C	SER B 456	20.506	20.033	24.059	1.00 31.89
MOTA	2965	õ	SER B 456	21.250	19.391	24.818	1.00 29.82
ATOM	2966	СВ	SER B 456	20.343	18.604	21.921	1.00 31.07
			SER B 456	19.446	17.466	21.649	1.00 29.71
MOTA	2967	OG		20.322	21.349	24.098	1.00 27.18
MOTA	2968	N	ALA B 457			24.098	1.00 27.18
ATOM	2969	CA	ALA B 457	21.221	22.116 21.687	26.401	1.00 35.40
ATOM	2970	C	ALA B 457	21.155			
MOTA	2971	0	ALA B 457	20.099	21.737	27.028	
MOTA	2972	CB	ALA B 457	20.928	23.610	24.809	1.00 39.56 1.00 35.72
ATOM	2973	N	MET B 458	22.347	21.591	27.008	
ATOM	2974	CA	MET B 458	22.393	21.244	28.430	1.00 29.71
ATOM	2975	Č	MET B 458	22.393	22.505	29.298	1.00 42.19
ATOM	2976	0	MET B 458	22.691	23.569	28.725	1.00 41.34
ATOM	2977	CB	MET B 458	23.607	20.386	28.739	1.00 38.90
MOTA	2978	CG	MET B 458	23.552	18.990	28.158	1.00 35.74
MOTA	2979	SD	MET B 458	22.267	17.944	28.833	1.00 32.79
MOTA	2980	CE	MET B 458	22.653	17.715	30.567	1.00 35.81
ATOM	2981	N	ALA B 469	12.103	36.034	25.966	1.00 54.31
ATOM	2982	CA	ALA B 469	11.314	36.184	24.740	1.00 55.41
MOTA	2983	С	ALA B 469	11.762	35.123	23.727	1.00 54.41
ATOM	2984	0	ALA B 469	10.971	34.426	23.100	1.00 53.37
MOTA	2985	CB	ALA B 469	11.481	37.560	24.148	1.00 56.77
ATOM	2986	N	SER B 470	13.092	35.091	23.569	1.00 49.02
ATOM	2987	CA	SER B 470	13.677	34.082	22.669	1.00 46.55
ATOM	2988	C	SER B 470	13.409	32.747	23.368	1.00 43.33
MOTA	2989	ō	SER B 470	12.951	31.791	22.750	1.00 43.16
MOTA	2990	СB	SER B 470	15.155	34.311	22.434	1.00 47.34
MOTA	2991	ŌĞ	SER B 470	15.760	33.317	21.622	1.00 44.03
MOTA	2992	N	SER B 471	13.697	32.727	24.670	1.00 43.18
ATOM	2993	CA	SER B 471	13.459	31.548	25.484	1.00 47.51
MOTA	2994	C	SER B 471	12.028	31.052	25.311	1.00 48.84
ATOM	2995	Ö	SER B 471	11.830	29.892	24.970	1.00 49.05
ATOM	2996	CB	SER B 471	13.659	31.871	26.972	1.00 50.06
ESTOLI	2770	CD	DTV D 411	20.000	52.572		

ATOM

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8990123456789901123456789012234567890123345678901233456789012333333333333333333333333333333333333	CD1 LEU B CD2 LEU B N ALA B CA ALA B O ALA B CB ALA B N HIS B CA HIS B C HIS B	472 472 472 472 472 473 473 473 473 473 473 473 473 473 473	11.998.8887.63991772992444816099197116987.66486577334849972 1998.8887.639928991772991699197169198799111.9987.83996184999111.999.111.9987.839961849972 11.999.111.999.111.9987.9766.329194.46697.334.337993446667.33998.489972 11.999.111.9987.35353.4888.899.42888.349972.849972 11.998.349998849972	31.9970 31.12308888969970 32.1330.48588861962293 33.1330.48588861962293 33.1330.385.38589691962293 33.1330.38589691962293 33.1330.38589691962293 33.1330.38589691962293 33.1330.38589691962293 33.1330.38589691962293 33.1330.38589691962293 33.1330.38589692222222222222222222222222222222222	20.883 23.003 23.382 24.016 23.146 22.971 25.357 22.557 21.678 20.382 19.921 21.387 20.399 20.707 19.083 19.612 18.613 19.761 18.508 18.508 18.821 18.100	1.00 48.98 1.00 53.12 1.00 47.16 1.00 45.19 1.00 59.26 1.00 72.82 1.00 75.75 1.00 78.82 1.00 78.17 1.00 79.34 1.00 44.23 1.00 42.00 1.00 35.23 1.00 57.47 1.00 62.58 1.00 69.85 1.00 36.73 1.00 36.66 1.00 36.66 1.00 36.88 1.00 37.48 1.00 37.40 1.00 37.59 1.00 3	
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2997 OG SER B 471 13.172 30.756 27.719 1.00 53.89

MOTA MOTA	3074 3075	CB CG1	VAL B	481 481	8.766 9.356	20.120	16.684 16.125	1.00 22.50
ATOM ATOM ATOM	3076 3077 3078	CG2 N CA	THR B	481 482 482	9.200 6.556 5.949	21.229 18.883 17.738	15.733 18.786 19.474	1.00 23.62 1.00 18.00 1.00 22.76
ATOM ATOM ATOM	3079 3080 3081	C O CB	THR B	482 482 482	4.543 4.166 5.970	17.467 16.328 17.975	18.948 18.642 21.000	1.00 22.09 1.00 19.49 1.00 29.51
ATOM ATOM ATOM	3082 3083 3084	OG1 CG2 N	THR B	482 482 483	7.324 5.430 3.725	18.198 16.809 18.508	21.397 21.810 18.826	1.00 27.76 1.00 27.12 1.00 20.17
MOTA MOTA	3085 3086	CA C	ASP B	483 483	2.359 2.323	18.365 17.762	18.301 16.911	1.00 24.13 1.00 22.27
ATOM ATOM ATOM	3087 3088 3089	O CB CG	ASP B ASP B	483 483 483	1.429 1.611 1.102	16.997 19.702 20.228	16.549 18.199 19.515	1.00 26.19 1.00 29.71 1.00 36.10
ATOM ATOM ATOM	3090 3091 3092		ASP B	483 483 484	0.857 0.970 3.317	19.405 21.472 18.110	20.430 19.657 16.081	1.00 31.63 1.00 33.72 1.00 22.75
MOTA MOTA	3093 3094 3095	CA C O	ALA B	484 484 484	3.439 3.709 3.131	17.595 16.095 15.295	14.734 14.756 14.011	1.00 22.22 1.00 22.87 1.00 21.02
ATOM ATOM ATOM	3096 3097 3098	CB N CA	ALA B LEU B LEU B	485	4.572 4.629 4.955	18.329 15.757 14.327	14.022 15.672 15.808	1.00 26.05 1.00 20.98 1.00 19.83
ATOM ATOM ATOM	3099 3100 3101	C O CB	LEU B LEU B	485 485	3.731 3.436 6.135	13.511 12.430 14.140	16.168 15.633 16.787	1.00 19.13 1.00 22.33 1.00 21.40
MOTA MOTA	3102 3103	CG CD1	LEU B	485 485	6.506 6.940	12.662 11.941	16.981 15.716	1.00 18.67 1.00 20.60
ATOM ATOM ATOM	3104 3105 3106	CD2 N CA	LEU B VAL B VAL B		7.640 3.024 1.795	12.520 13.929 13.296	18.044 17.192 17.709	1.00 19.57 1.00 21.56 1.00 20.68
ATOM ATOM ATOM	3107 3108 3109	C O CB	VAL B VAL B	486 486	0.791 0.171 1.220	13.215 12.182 14.149	16.567 16.301 18.845	1.00 25.17 1.00 24.38 1.00 23.66
ATOM ATOM ATOM	3110 3111 3112	CG1 CG2 N	VAL B	486 486 487	-0.238 2.045 0.674	13.813 14.002 14.343	19.229 20.124 15.830	1.00 24.83 1.00 21.63 1.00 21.96
ATOM ATOM ATOM	3113 3114 3115	CA C O		487 487 487	-0.236 0.196 -0.626	14.324 13.325 12.579	14.653 13.619 13.030	1.00 25.74 1.00 26.02 1.00 26.05
ATOM ATOM ATOM	3116 3117 3118	CB CG CD1	TRP B TRP B	487 487 487	-0.264 -1.058 -2.409	15.750 15.906 16.096	14.059 12.803 12.721	1.00 25.93 1.00 30.60 1.00 37.56
ATOM ATOM ATOM	3119 3120 3121	CD2 NE1 CE2	TRP B TRP B	487 487 487	-0.565 -2.779 -1.667	15.917 16.218 16.100	11.469 11.394 10.608	1.00 31.01 1.00 40.01 1.00 36.26
ATOM ATOM ATOM	3122 3123 3124	CE3 CZ2 CZ3	TRP B TRP B TRP B	487 487	0.697 -1.528 0.838	15.745 16.157 15.816	10.903 9.222 9.534	1.00 29.94 1.00 32.52 1.00 37.87
ATOM ATOM ATOM	3125 3126 3127	CH2 N CA	TRP B VAL B VAL B	487 488	-0.286 1.485 2.006	16.003 13.151 12.204	8.699 13.308 12.360	1.00 36.54 1.00 23.83 1.00 21.03
ATOM ATOM	3128 3129	C 0	VAL B VAL B VAL B	488 488	1.740 1.293 3.521	10.761 9.887 12.296	12.832 12.075 12.123	1.00 26.30 1.00 25.72 1.00 24.64
ATOM ATOM	3130 3131 3132	CG2	VAL B	488 488	4.070 3.865	11.047 13.561	11.443 11.297	1.00 26.89 1.00 24.58 1.00 23.13
ATOM ATOM	3133 3134 3135	N CA C	ILE B ILE B	489 489	2.028 1.765 0.256	10.550 9.180 8.881	14.155 14.666 14.538	1.00 22.06 1.00 24.87
MOTA MOTA MOTA	3136 3137 3138	O CB CG1		489 489	-0.098 2.177 3.734	7.719 9.090 9.132	14.264 16.134 16.232	1.00 24.99 1.00 26.08 1.00 22.32
MOTA MOTA MOTA	3139 3140 3141	CG2 CD1 N	ALA B	489 490	1.641 4.210 -0.617	7.941 9.443 9.831	16.945 17.653 14.685	1.00 22.95 1.00 20.14 1.00 27.34
MOTA MOTA MOTA	3142 3143 3144	CA C O	ALA B ALA B ALA B	490 490	-2.070 -2.537 -3.547	9.508 9.090 8.355	14.629 13.265 13.114	1.00 27.84 1.00 34.80 1.00 31.94
MOTA MOTA MOTA	3145 3146 3147	CB N CA	ALA B LYS B LYS B	491 491	-2.880 -1.803 -2.252	10.619 9.380 8.898	15.276 12.183 10.870	1.00 28.91 1.00 32.12 1.00 38.71
MOTA MOTA	3148 3149 3150	C O CB	LYS B LYS B LYS B	491	-1.972 -2.387 -1.719	7.420 6.847 9.752	10.669 9.660 9.735	1.00 34.00 1.00 32.22 1.00 44.36

ATOM ATOM ATOM	3151 3152 3153	CG CD CE	LYS B 4 LYS B 4 LYS B 4	91	-0.239 0.171 0.188	9.800 11.178 11.102	9.522 8.977 7.466	1.00 48.41 1.00 49.59 1.00 53.70
ATOM ATOM ATOM	3154 3155 3156	NZ N CA	LYS B 4 SER B 4 SER B 4	91 92	-0.254 -1.400 -1.127	12.384 6.696 5.277	6.856 11.641 11.504	1.00 55.43 1.00 28.99 1.00 33.42
ATOM ATOM ATOM	3157 3158 3159	C O CB	SER B 4 SER B 4	92 92	-2.366 -2.385 0.031	4.456 3.255 4.797	11.835 11.573 12.387	1.00 28.23 1.00 32.62 1.00 34.07
ATOM ATOM ATOM	3160 3161 3162	og N CA	SER B 4 GLY B 4 GLY B 4	.93 .93	-0.338 -3.393 -4.592	4.812 5.001 4.264	13.756 12.462 12.783	1.00 35.52 1.00 28.90 1.00 26.51
ATOM ATOM ATOM	3163 3164 3165	И О С	GLY B 4 GLY B 4 ILE B 4	93 94	-4.559 -5.500 -3.498	3.393 2.653 3.487	14.015 14.347 14.799	1.00 31.70 1.00 29.72 1.00 30.49
ATOM ATOM ATOM	3166 3167 3168	CA C	ILE B 4 ILE B 4	94 94	-3.394 -4.220 -4.643	2.642 3.249 4.399	16.006 17.111 16.977	1.00 26.38 1.00 26.60 1.00 25.72
MOTA MOTA MOTA MOTA	3169 3170 3171 3172	CG2	ILE B 4 ILE B 4 ILE B 4	94	-1.928 -1.316 -1.153 0.167	2.494 3.881 1.759 3.779	16.410 16.709 15.340 17.077	1.00 29.64 1.00 32.50 1.00 29.24 1.00 31.75
ATOM ATOM ATOM	3173 3174 3175	CA CDI	SER B 4 SER B 4 SER B 4	.95 .95	-4.533 -5.322 -4.645	2.484 2.960 4.105	18.155 19.268 19.992	1.00 22.01 1.00 28.60 1.00 29.65
ATOM ATOM ATOM	3176 3177 3178	O CB OG	SER B 4 SER B 4 SER B 4	.95 .95	-3.426 -5.519 -4.309	4.270 1.793 1.556	19.872 20.264 20.995	1.00 29.51 1.00 28.32 1.00 29.30
MOTA MOTA MOTA	3179 3180 3181	N CA C	SER B 4 SER B 4	.96 .96	-5.405 -4.872 -3.787	4.827 5.920 5.454	20.815 21.606 22.560	1.00 28.42 1.00 33.49 1.00 31.99
ATOM ATOM ATOM	3182 3183 3184 3185	O CB OG	SER B 4 SER B 4 SER B 4	.96 .96	-2.732 -6.020 -5.368 -3.967	6.047 6.601 7.596 4.275	22.697 22.387 23.174 23.178	1.00 28.33 1.00 33.83 1.00 42.49 1.00 32.91
MOTA MOTA MOTA MOTA	3186 3187 3188	N CA C	GLN B 4 GLN B 4 GLN B 4	.97 .97	-2.957 -1.693 -0.586	3.707 3.419 3.672	24.062 23.254 23.743	1.00 33.88 1.00 29.03 1.00 30.75
ATOM ATOM ATOM	3189 3190 3191	CB CG CD	GLN B 4	97 197	-3.435 -2.540 -1.413	2.402 1.791 0.910	24.699 25.748 25.284	1.00 36.61 1.00 37.77 1.00 44.35
ATOM ATOM ATOM	3192 3193 3194	OE1 NE2 N	GLN B 4	197 197 198	-1.374 -0.457 -1.822	0.429 0.650 2.882	24.150 26.172 22.033	1.00 47.20 1.00 46.49 1.00 27.21
ATOM ATOM ATOM	3195 3196 3197 3198	CA C O CB		198 198	-0.667 -0.065 1.167 -0.880	2.636 3.975 3.907 1.711	21.202 20.730 20.578 19.998	1.00 25.33 1.00 26.83 1.00 26.30 1.00 26.86
ATOM ATOM ATOM	3199 3200 3201	CG CD	GLN B 4 GLN B 4 GLN B 4	198 198	-1.241 0.010 0.947	0.323 -0.353 -0.562	20.549 21.095 20.310	1.00 27.39 1.00 36.34 1.00 40.62
ATOM ATOM ATOM	3202 3203 3204		GLN B 4 GLN B 4	198 199	0.096 -0.885 -0.308	-0.684 5.011 6.296	22.379 20.559 20.125	1.00 36.50 1.00 24.02 1.00 22.80
ATOM ATOM ATOM	3205 3206 3207	C O CB	GLN B 4 GLN B 4	199 199	0.661 1.774 -1.341	6.807 7.246 7.409	21.224 20.920 19.895	1.00 23.57 1.00 23.90 1.00 27.44
ATOM ATOM ATOM	3208 3209 3210 3211	CG CD OE1 NE2	GLN B GLN B GLN B	199 199	-2.178 -3.283 -3.993 -3.543	7.291 8.331 8.430 9.159	18.606 18.529 17.520 19.560	1.00 32.73 1.00 37.67 1.00 39.66 1.00 31.52
ATOM ATOM ATOM	3212 3213 3214	N CA C	SER B SER B SER B	50 0 500	0.224 1.070 2.331	6.765 7.206 6.356	22.474 23.598 23.682	1.00 25.59 1.00 25.90 1.00 25.66
MOTA MOTA MOTA	3215 3216 3217	O CB OG	SER B SER B	500 500	3.458 0.290 -0.676	6.835 7.061 8.089	23.980 24.907 25.040	1.00 22.82 1.00 31.89 1.00 36.59
ATOM ATOM ATOM ATOM	3218 3219 3220 3221	N CA C O	MET B SMET B SMET B SMET B SMET B	501 501	2.167 3.318 4.360 5.594	5.048 4.143 4.391 4.357	23.514 23.623 22.538 22.766	1.00 25.69 1.00 29.93 1.00 28.16 1.00 23.35
MOTA MOTA MOTA	3222 3223 3224	CB CG SD	MET B S MET B S	501 501 501	2.839 3.352 2.295	2.679 1.858 1.977	23.583 24.760 26.203	1.00 34.14 1.00 51.81 1.00 55.56
MOTA MOTA MOTA	3225 3226 3227	CE N CA	MET B SARG B SARG B	502	2.301 3.870 4.763	3.688 4.712 4.948	26.660 21.323 20.191	1.00 59.00 1.00 24.75 1.00 22.72

ATOM	3228	С	ARG B 5	502	5.566	6.239	20.402	1.00 20.84
ATOM	3229	ŏ		502	6.783	6.283	20.126	1.00 22.79
ATOM	3230	ČВ		502	3.997	5.060	18.844	1.00 21.16
ATOM	3231	CG		502	4.991	5.295	17.692	1.00 25.92
	3232							
ATOM		CD		502	4.395	5.049	16.313	1.00 28.95
MOTA	3233	NE		502	5.357	5.004	15.238	1.00 23.66
ATOM	3234	CZ		502	6.164	4.003	14.897	1.00 27.73
MOTA	3235			502	6.991	4.154	13.877	1.00 22.39
MOTA	3236	NH2		502	6.231	2.829	15.534	1.00 30.80
MOTA	3237	N	LEU B 5	503	4.858	7.238	20.884	1.00 18.40
MOTA	3238	CA		503	5.532	8.520	21.205	1.00 21.85
ATOM	3239	C	LEU B 5	503	6.613	8.261	22.230	1.00 19.31
ATOM	3240	0	LEU B 5	503	7.741	8.712	22.132	1.00 19.95
MOTA	3241	CB	LEU B 5	503	4.485	9.527	21.670	1.00 20.32
MOTA	3242	CG	LEU B 5	503	5.030	10.914	22.094	1.00 20.86
ATOM	3243	CD1	LEU B 5	503	5.669	11.650	20.932	1.00 22.23
ATOM	3244	CD2	LEU B 5	503	3.879	11.683	22.701	1.00 22.73
ATOM	3245	N	ALA B 5	04	6.243	7.577	23.330	1.00 20.43
MOTA	3246	CA	ALA B 5	04	7.227	7.276	24.372	1.00 23.26
MOTA	3247	С	ALA B 5	04	8.379	6.431	23.864	1.00 23.81
ATOM	3248	0	ALA B 5	04	9.581	6.708	24.146	1.00 22.74
ATOM	3249	CB		04	6.533	6.501	25.488	1.00 23.86
ATOM	3250	N		505	8.159	5.398	23.039	1.00 21.61
ATOM	3251	CA		505	9.259	4.578	22.525	1.00 22.57
MOTA	3252	C		505	10.180	5.384	21.611	1.00 23.21
ATOM	3253	ō	ASN B 5		11.424	5.219	21.617	1.00 22.51
ATOM	3254	СB		505	8.675	3.365	21.765	1.00 26.72
ATOM	3255	CG		505	8.271	2.267	22.745	1.00 34.58
ATOM	3256			505	8.957	1.971	23.718	1.00 40.44
MOTA	3257			505	7.152	1.635	22.496	1.00 33.99
ATOM	3258	N		506	9.602	6.259	20.763	1.00 21.36
ATOM	3259	CA		506	10.482	7.053	19.905	1.00 22.31
	3259			506	11.320	8.013	20.744	1.00 24.19
ATOM		C			12.515	8.189	20.744	1.00 24.19
ATOM	3261	O CP		506		7.870		1.00 23.77
ATOM	3262	CB	LEU B 5		9.658		18.898	
MOTA	3263	CG		506	8.871	7.129	17.827	1.00 29.50
ATOM	3264			506	8.068	8.166	17.036	1.00 33.79
ATOM	3265			506	9.791	6.332	16.912	1.00 33.24
ATOM	3266	N		507	10.696	8.705	21.701	1.00 21.63
ATOM	3267	CA		507	11.471	9.694	22.481	1.00 25.03
MOTA	3268	C		507	12.444	8.987	23.394	1.00 23.77
MOTA	3269	0_		507	13.501	9.548	23.706	1.00 26.25
MOTA	3270	CB		507	10.515	10.633	23.232	1.00 27.26
ATOM	3271	CG		507	9.592	11.371	22.233	1.00 29.67
MOTA	3272			507	8.764	12.382	22.956	1.00 29.27
MOTA	3273	CD2		507	10.372	12.022	21.097	1.00 31.99
MOTA	3274	N		508	12.112	7.773	23.844	1.00 20.83
ATOM	3275	CA		508	13.132	7.080	24.650	1.00 23.78
ATOM	3276	Ç		508	14.390	6.726	23.848	1.00 29.09
MOTA	3277	0	MET B 5		15.492	6.803		
MOTA	3278	CB	MET B 5		12.571	5.805	25.289	1.00 26.91
MOTA	3279	CG	MET B 5		11.841	6.133	26.601	1.00 30.84
MOTA	3280	SD		808	11.468	4.560	27.450	1.00 29.95
ATOM	3281	CE	MET B 5		10.343	3.845	26.243	1.00 29.84
ATOM	3282	N	LEU B 5		14.305	6.477	22.553	1.00 27.99
MOTA	3283	CA	LEU B 5		15,424	6.228	21.679	1.00 29.96
MOTA	3284	C		509	16.285	7.458	21.470	1.00 30.52
MOTA	3285	0	LEU B 5		17,483	7.306	21.166	1.00 27.74
ATOM	3286	CB	LEU B 5		14.974	5.669	20.307	1.00 32.48
ATOM	3287	CG	LEU B 5		14.638	4.173	20.309	1.00 33.77
MOTA	3288		LEU B 5		14.129	3.823	18.931	1.00 34.29
MOTA	3289	CD2	LEU B 5		15.854	3.403	20.830	1.00 37.61
MOTA	3290	N	LEU B 5		15.836	8.680	21.726	1.00 26.40
MOTA	3291	CA	LEU B 5		16.544	9.917	21.631	1.00 29.83
ATOM	3292	C	LEU B 5		17,718	9.962	22.640	1.00 27.70
MOTA	3293	0	LEU B 5		18.780	10.574	22.463	1.00 25.15
MOTA	3294	CB	LEU B 5		15.679	11.127	21.928	1.00 37.31
MOTA	3295	CG	LEU B 5		14.737	11.758	20.914	1.00 43.51
ATOM	3296		LEU B 5		13.671	12.521	21.714	1.00 47.22
ATOM	3297		LEU B 5		15.336	12.812	20.015	1.00 39.00
MOTA	3298	N	SER B 5		17.483	9.251	23.788	1.00 25.53
MOTA	3299	CA	SER B 5		18.540	9.158	24.767	1.00 22.45
MOTA	3300	C	SER B 5		19.689	8.297	24.204	1.00 16.69
MOTA	3301	0	SER B 5		20.855	8.465	24.528	1.00 21.23
ATOM	3302	CB	SER B 5		18.121	8.283	25.975	1.00 25.55
ATOM	3303	OG	SER B 5		19.264	8.432	26.827	1.00 37.78
MOTA	3304	N	HIS B 5	512	19.300	7.293	23.385	1.00 18.67

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N TOM	3305	C A	UTC D 510	20 290	6 121	22 761	1 00 20 04
MOTA MOTA	3305 3306	CA C	HIS B 512 HIS B 512	20.289 21.052	6.421 7.157	22.761 21.630	1.00 20.94 1.00 24.96
MOTA	3307	0	HIS B 512	22.260	6.952	21.469	1.00 17.72
MOTA MOTA	3308 3309	CB CG	HIS B 512 HIS B 512	19.656 18.936	5.159 4.371	22.182 23.266	1.00 21.42 1.00 26.29
ATOM	3310		HIS B 512	19.329	3.065	23.250	1.00 36.40
ATOM	3311	CD2	HIS B 512	17.948	4.525	24.167	1.00 31.77
MOTA	3312 3313		HIS B 512 HIS B 512	18.647 17.777	2.497 3.303	24.304 24.816	1.00 33.28 1.00 28.54
ATOM ATOM	3314	NEZ N	VAL B 513	20.370	8.113	20.952	1.00 28.54
ATOM	3315	CA	VAL B 513	21.080	8.894	19.944	1.00 23.43
MOTA	3316 3317	C	VAL B 513 VAL B 513	22.010 23.177	9.865 10.063	20.659 20.292	1.00 25.90 1.00 19.83
ATOM ATOM	3318	O CB	VAL B 513	20.108	9.616	18.990	1.00 19.83
ATOM	3319	CG1	VAL B 513	20.981	10.300	17.923	1.00 24.99
ATOM ATOM	3320 3321	CG2 N	VAL B 513 ARG B 514	19.093 21.601	8.646 10.431	18.398 21.820	1.00 22.87 1.00 20.20
ATOM	3322	CA	ARG B 514	22.454	11.311	22.586	1.00 19.38
ATOM	3323	C	ARG B 514	23.722	10.555	23.082	1.00 20.72
ATOM ATOM	3324 3325	O CB	ARG B 514 ARG B 514	24.780 21.775	11.111 11.826	23.070 23.891	1.00 19.22 1.00 20.64
ATOM	3326	CG	ARG B 514	22.723	12.689	24.724	1.00 25.83
MOTA	3327	CD	ARG B 514	23.204 22.455	13.947 15.060	24.011	1.00 35.37 1.00 43.69
ATOM ATOM	3328 3329	NE CZ	ARG B 514 ARG B 514	21.394	15.577	24.415 24.923	1.00 43.69
MOTA	3330	NH1	ARG B 514	20.304	15.017	25.392	1.00 60.27
ATOM ATOM	3331 3332	NH2 N	ARG B 514 HIS B 515	21.323 23.484	16.891 9.350	25.016 23.563	1.00 57.39 1.00 17.72
ATOM	3333	CA	HIS B 515	24.641	8.527	24.041	1.00 17.72
MOTA	3334	C	HIS B 515	25.609	8.235	22.923	1.00 17.42
MOTA MOTA	3335 3336	O CB	HIS B 515	26.833 23.964	8.352 7.2 4 5	23.105 24.547	1.00 18.81 1.00 19.53
MOTA	3337	CG	HIS B 515	24.967	6.484	25.347	1.00 24.48
MOTA	3338		HIS B 515	25.814		24.711	1.00 39.46
MOTA MOTA	3339 3340		HIS B 515	25.237 26.596		26.665 25.611	1.00 28.08 1.00 33.92
ATOM	3341	NE2	HIS B 515	26.258	5.525	26.792	1.00 34.27
MOTA MOTA	3342 3343	N CA	ALA B 516 ALA B 516	25.130 26.082		21.699 20.593	1.00 19.19 1.00 15.11
ATOM	3344	C	ALA B 516	26.867	8.947	20,257	1.00 16.34
ATOM	3345	0	ALA B 516	28.068		19.968	1.00 17.56
MOTA MOTA	3346 3347	CB N	ALA B 516 SER B 517	25.327 26.166		19.359 20.266	1.00 17.83 1.00 15.85
ATOM	3348	CA	SER B 517	26.891	11.347	19.977	1.00 15.27
MOTA MOTA	3349 3350	C	SER B 517 SER B 517	27.920 29.050		21.051 20.754	1.00 18.02 1.00 17.13
ATOM	3351	CB	SER B 517	25.838	12.475	19.866	1.00 18.28
MOTA	3352	OG	SER B 517	25.189		21.054 22.326	1.00 29.75
ATOM ATOM	3353 3354	N CA	ASN B 518 ASN B 518	27.604 28.587	11.369 11.664	23.377	1.00 14.32 1.00 14.12
MOTA	3355	C	ASN B 518	29.805	10.730	23.197	1.00 15.89
ATOM ATOM	3356 3357	O CB	ASN B 518 ASN B 518	30.927 27.901		23.310 24.713	1.00 18.55 1.00 18.47
ATOM	3358	CG	ASN B 518	26.965		25.079	1.00 23.21
MOTA	3359		ASN B 518	27.007		24.599	1.00 33.02
ATOM ATOM	3360 3361	NDZ N	ASN B 518 LYS B 519	26.100 29.461		25.959 22.896	1.00 24.38 1.00 16.87
ATOM	3362	CA	LYS B 519	30.631	8.547	22.734	1.00 20.10
ATOM ATOM	3363 3364	C O	LYS B 519 LYS B 519	31.444 32.691		21.488 21.474	1.00 23.76 1.00 16.66
ATOM	3365	CB	LYS B 519	30.172	7.094	22.727	1.00 18.89
ATOM	3366	CG	LYS B 519	29.394		23.923	1.00 31.80
ATOM ATOM	3367 3368	CD	LYS B 519 LYS B 519	29.724 31.035		25.286 25.916	1.00 43.98 1.00 48.07
MOTA	3369	NZ	LYS B 519	31.007	5.403	26.621	1.00 54.91
MOTA MOTA	3370 3371	N CA	GLY B 520 GLY B 520	30.769 31.438		20.435 19.198	1.00 19.42 1.00 18.51
ATOM	3372	CA	GLY B 520	32.290		19.436	1.00 19.23
MOTA	3373	0	GLY B 520	33.426		18.973	1.00 18.96 1.00 16.60
ATOM ATOM	3374 3375	N CA	MET B 521 MET B 521	31.831 32.612		20.208 20.468	1.00 16.60 1.00 19.17
ATOM	3376	С	MET B 521	33.820	12.807	21.339	1.00 21.93
MOTA MOTA	3377 3378	O CB	MET B 521 MET B 521	34.905 31.747		21.135 21.220	1.00 20.60 1.00 21.74
ATOM	3379	CG	MET B 521	30.607	14.758	20.381	1.00 24.15
ATOM	3380	SD	MET B 521	31.265 31.488		19.049 20.088	1.00 26.04 1.00 30.44
ATOM	3381	CE	MET B 521	31.488	17.298	20.000	T.00 D0.44

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MOTA

3382 N

GLU B 522

ATOM	3382	N	GLU B 522	33.64/	11.869	22.282	1.00 20.10
ATOM	3383 3384	CA	GLU B 522 GLU B 522	34.776 35.885	11.484 10.863	23.122 22.260	1.00 25.43 1.00 26.45
ATOM ATOM	3385	0	GLU B 522	37.086	11.164	22.437	1.00 23.45
ATOM	3386	CB	GLU B 522	34.254	10.423	24.133	1.00 21.69
ATOM	3387	CG	GLU B 522	35.334	10.423	25.124	1.00 27.73
ATOM	3388	CD	GLU B 522	34.913	8.927	26.032	1.00 31.13
ATOM	3389		GLU B 522	33.872	8.299	25.821	1.00 29.63
ATOM	3390	OE2	GLU B 522	35.746	8.841	26.946	1.00 33.77
ATOM	3391	N	HIS B 523	35.416	10.025	21.357	1.00 20.32
ATOM	3392	CA	HIS B 523	36.313	9.360	20.391	1.00 20.93
ATOM	3393	C	HIS B 523	37.012	10.365	19.521	1.00 25.39
ATOM	3394	ō	HIS B 523	38.227	10.290	19.395	1.00 23.10
ATOM	3395	CB	HIS B 523	35.544	8.328	19.575	1.00 23.46
ATOM	3396	CG	HIS B 523	36.478	7.584	18.642	1.00 25.84
MOTA	3397		HIS B 523	36.666	7.948	17.345	1.00 23.87
MOTA	3398		HIS B 523	37.273	6.518	18.889	1.00 29.69
MOTA	3399		HIS B 523	37.550	7.123	16.797	1.00 27.36
ATOM	3400	NE2	HIS B 523	37.934	6.238	17.708	1.00 27.67
MOTA	3401	N	LEU B 524	36.308	11.326	18.905	1.00 20.50
MOTA	3402	CA	LEU B 524	36.973	12.338	18.097	1.00 23.83
MOTA	3403	C	LEU B 524	37.994	13.140	18.887	1.00 25.77
ATOM	3404	0	LEU B 524	39.106	13.454	18.446	1.00 21.50
ATOM	3405	CB	LEU B 524	35.862	13.210	17.539	1.00 21.52
ATOM	3406	CG	LEU B 524	36.271	14.466	16.765	1.00 24.32
ATOM	3407		LEU B 524	37.110	14.051	15.556	1.00 19.83 1.00 20.24
ATOM	3408		LEU B 524	34.958 37.635	15.143	16.323 20.113	1.00 20.24
ATOM	3409 3410	N	LEU B 525 LEU B 525	38.625	13.523 14.289	20.113	1.00 25.69
ATOM	3410	CA	LEU B 525	39.888	13.413	21.066	1.00 23.09
MOTA	3411	C 0	LEU B 525	41.035	13.413	20.924	1.00 25.34
ATOM ATOM	3413	CB	LEU B 525	38.020	14.641	22.256	1.00 23.34
MOTA	3414	CG	LEU B 525	38.942	15.434	23.191	1.00 25.59
ATOM	3415		LEU B 525	39.578	16.654	22.575	1.00 28.37
MOTA	3416		LEU B 525	38.141	15.921	24.409	1.00 33.64
ATOM	3417	N	ASN B 526	39.695	12.170	21.401	1.00 23.55
MOTA	3418	CA	ASN B 526	40.832	11.236	21.523	1.00 28.62
MOTA	3419	C	ASN B 526	41.638	11.161	20.235	1.00 29.46
ATOM	3420	0	ASN B 526	42.886	11.140	20.265	1.00 24.90
ATOM	3421	CB	ASN B 526	40.331	9.881	21.996	1.00 28.03
MOTA	3422	CG	ASN B 526	39.994	9.832	23.482	1.00 35.41
MOTA	3423		ASN B 526	40.551	10.585	24.281	1.00 33.77
MOTA	3424	ND2	ASN B 526	39.088	8.933	23.839	1.00 34.04
ATOM	3425	N	MET B 527	41.015	11.198	19.057	1.00 24.95
ATOM	3426	CA	MET B 527	41.708	11.174	17.769	1.00 25.60
MOTA	3427	C	MET B 527	42.488	12.460	17.537	1.00 26.85
MOTA	3428	0	MET B 527	43.626	12.425	17.038	1.00 29.13
ATOM	3429	CB	MET B 527	40.715	10.916	16.641	1.00 28.30 1.00 22.52
ATOM	3430 3431	CG	MET B 527 MET B 527	40.079 41.342	9.529 8.219	16.527 16.443	1.00 22.32
MOTA	3431	SD CE	MET B 527				
MOTA	3432		LYS B 528	41.987	13.595	17.971	1.00 23.43
ATOM ATOM	3434	N CA	LYS B 528	42.705	14.868	17.880	1.00 26.38
ATOM	3435	C	LYS B 528	43.913	14.849	18.816	1.00 31.70
ATOM	3436	ŏ	LYS B 528	45.026	15.174	18.370	1.00 29.21
ATOM	3437	СB	LYS B 528	41.779	16.009	18.234	1.00 29.86
ATOM	3438	CG	LYS B 528		17.413	18.172	1.00 29.01
ATOM	3439	CD	LYS B 528	43.113	17.831	19.415	1.00 36.75
ATOM	3440	CE	LYS B 528	43.464	19.315	19.289	1.00 41.62
MOTA	3441	NZ	LYS B 528		19.878	20.650	1.00 47.99
ATOM	3442	N	CYS B 529	43.742	14.397	20.035	1.00 27.02
MOTA	3443	CA	CYS B 529	44.798	14.307	21.042	1.00 28.86
MOTA	3444	С	CYS B 529		13.362	20.645	1.00 30.53
MOTA	3445	0	CYS B 529		13.594	21.040	1.00 32.58
ATOM	3446	CB	CYS B 529		13.981	22.433	1.00 35.32
ATOM	3447	SG	CYS B 529		15.486	23.003	1.00 38.75
ATOM	3448	N	LYS B 530		12.388	19.802	1.00 28.29
ATOM	3449	CA	LYS B 530		11.398 11.887	19.246 17.944	1.00 31.42 1.00 27.27
ATOM	3450	C	LYS B 530		11.887	17.314	1.00 27.27
ATOM ATOM	3451 3452	O CB	LYS B 530		10.141	18.988	1.00 31.07
ATOM	3453	CG	LYS B 530		8.905	18.632	1.00 41.59
MOTA	3454	CD	LYS B 530		7.761	18.253	1.00 29.36
ATOM	3455	CE	LYS B 530		6.765	17.488	1.00 35.55
ATOM	3456	NZ	LYS B 530		5.391	17.518	1.00 35.31
ATOM	3457	N	ASN B 531	46.811	13.118	17.528	1.00 25.91
MOTA	3458	CA	ASN B 531	47.347	13.713	16.304	1.00 30.46

33.647 11.869 22.282 1.00 20.10

ATOM 3460 O ASN B 531								
ATOM 3461 CB ASN B 531	MOTA	3459	C ASN B	531	46.902	13.034	15.022	1.00 31.27
ATOM 3462 CG ASN B 531	ATOM	3460	O ASN B	531	47.585	13.155	13.991	1.00 28.41
ATOM 3462 CG ASN B 531	ATOM	3461	CB ASN B	531	48.889	13.793	16.383	1.00 30.45
ATOM 3464 ND2 ASN B 5311		3462		531	49.304	14.743	17.504	
ATOM 3465 N VAL B 531								
ATOM 3466 CA VAL B 532 45.186 11.714 13.840 1.00 29.98 ATOM 3467 C VAL B 532 44.368 12.667 13.009 1.00 30.41 ATOM 3468 C VAL B 532 44.368 12.667 13.009 1.00 30.41 ATOM 3468 C VAL B 532 44.268 12.574 11.785 1.00 28.66 ATOM 3470 CG1 VAL B 532 44.268 12.574 11.785 1.00 28.66 ATOM 3470 CG1 VAL B 532 43.649 9.804 14.257 1.00 28.06 ATOM 3471 CG2 VAL B 532 45.415 9.473 14.831 1.00 30.80 ATOM 3472 N VAL B 533 42.933 14.676 13.069 1.00 25.43 ATOM 3472 N VAL B 533 42.933 14.676 13.079 1.00 27.02 ATOM 3474 C VAL B 533 42.933 14.676 13.079 1.00 27.02 ATOM 3476 CB VAL B 533 43.370 15.066 14.956 1.00 29.36 ATOM 3476 CB VAL B 533 41.397 14.535 13.241 1.00 24.66 ATOM 3477 CG1 VAL B 533 41.397 14.535 13.241 1.00 24.65 ATOM 3478 CG2 VAL B 533 41.397 14.535 1.00 26.45 ATOM 3478 CG2 VAL B 533 41.397 14.535 1.00 26.45 ATOM 3478 CG2 VAL B 533 40.874 13.320 12.485 1.00 23.82 ATOM 3480 CA PROB 534 43.651 18.366 13.555 1.00 23.82 ATOM 3481 C PROB 534 43.651 18.366 13.555 1.00 23.12 ATOM 3482 C PROB 534 43.653 18.283 12.316 1.00 31.82 ATOM 3483 CB PROB 534 43.653 18.283 12.316 1.00 32.15 ATOM 3483 CD PROB 534 43.653 18.283 12.316 1.00 32.15 ATOM 3484 CG PROB 534 42.778 19.000 14.583 1.00 30.18 ATOM 3489 C VAL B 535 39.468 18.600 15.558 1.00 32.15 ATOM 3489 C VAL B 535 39.468 18.600 15.558 1.00 32.15 ATOM 3489 C VAL B 535 39.468 18.600 15.558 1.00 32.15 ATOM 3490 C PROB 534 42.778 19.000 14.583 1.00 30.18 ATOM 3490 C PROB 534 42.778 19.000 14.583 1.00 30.18 ATOM 3490 C PROB 534 42.778 19.000 14.583 1.00 30.18 ATOM 3491 C C VAL B 535 39.468 18.600 15.558 1.00 30.22 ATOM 3490 C PROB 534 42.778 19.000 14.583 1.00 30.18 ATOM 3490 C PROB 534 42.778 19.000 14.583 1.00 30.18 ATOM 3490 C PROB 535 40.597 1.00 30.90 ATOM 3490 C PROB 535 39.468 18.600 15.592 1.00 30.10 ATOM 3490 C PROB 535 39.468 18.600 15.592 1.00 30.10 ATOM 3490 C PROB 535 39.468 18.600 15.295 1.00 30.10 ATOM 3500 C PROB 535 39.468 18.169 20.108 10.00 32.17 ATOM 3501 C PROB 535 39.999 20.809 14.832 1.00 32.17 ATOM 3501 C PROB 535 39.999 20.809 14.832 1.00 32.17 ATOM 3501 C PROB 5								
ATOM 3466 CA VAL B 532 44.368 12.687 13.099 1.00 29.98 ATOM 3467 C VAL B 532 44.263 12.687 13.099 1.00 30.41 ATOM 3469 CB VAL B 532 44.263 12.687 13.099 1.00 30.41 ATOM 3470 CG1 VAL B 532 44.390 10.454 11.785 1.00 29.00 ATOM 3471 CG2 VAL B 532 44.390 10.454 14.257 1.00 29.00 ATOM 3471 CG2 VAL B 532 45.415 9.473 14.831 1.00 30.80 ATOM 3472 N VAL B 533 43.672 13.600 13.685 1.00 25.44 ATOM 3473 CA VAL B 533 42.933 14.676 13.099 1.00 27.02 ATOM 3474 C VAL B 533 43.767 15.979 13.765 1.00 25.40 ATOM 3475 O VAL B 533 43.767 15.099 13.765 1.00 25.40 ATOM 3476 CB VAL B 533 43.700 15.066 14.556 1.00 25.40 ATOM 3477 CG1 VAL B 533 43.767 15.099 13.765 1.00 25.40 ATOM 3476 CB VAL B 533 40.871 14.535 13.241 1.00 24.65 ATOM 3477 CG2 VAL B 533 40.871 14.535 13.241 1.00 24.65 ATOM 3477 CG2 VAL B 533 40.871 14.535 13.241 1.00 25.65 ATOM 3479 N PROB B 534 42.778 19.000 14.535 1.00 25.85 ATOM 3499 N PROB B 534 42.778 19.000 14.535 1.00 35.18 ATOM 3483 CB PRO B 534 42.778 19.000 14.535 1.00 30.18 ATOM 3483 CB PRO B 534 42.778 19.200 14.535 1.00 30.18 ATOM 3483 CB PRO B 534 42.778 19.200 14.535 1.00 30.18 ATOM 3486 N VAL B 535 39.468 18.630 12.316 1.00 32.15 ATOM 3487 CA VAL B 535 39.468 18.630 12.316 1.00 32.15 ATOM 3488 C VAL B 535 39.468 18.630 12.316 1.00 32.15 ATOM 3489 N PROB B 534 42.778 19.200 14.535 1.00 30.18 ATOM 3491 CD PROB B 534 42.778 19.200 14.535 1.00 30.18 ATOM 3493 N TUR B 535 40.597 19.521 15.441 1.00 32.07 ATOM 3487 CA VAL B 535 39.468 18.630 17.300 14.300 12.315 ATOM 3498 N VAL B 535 39.468 18.630 17.300 14.300 12.315 ATOM 3499 N PROB 534 42.778 18.627 11.300 1.00 32.15 ATOM 3491 CG1 VAL B 535 39.468 18.630 17.300 14.300 12.300 14.30								
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ATOM 3471 CG2 VAL B 532								
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AROM 3473 CA VAL B 533 42.933 14.676 13.079 1.00 27.02 AROM 3474 C VAL B 533 42.933 14.676 13.079 1.00 27.02 AROM 3475 C VAL B 533 42.933 14.676 13.079 1.00 27.02 AROM 3476 CB VAL B 533 43.700 16.066 14.956 1.00 29.34 AROM 3477 CG1 VAL B 533 44.397 14.535 13.241 1.00 24.66 AROM 3478 CG2 VAL B 533 40.874 13.325 12.485 1.00 26.64 AROM 3479 N PRO B 534 43.251 17.087 13.047 1.00 27.85 AROM 3479 N PRO B 534 43.251 17.087 13.047 1.00 27.85 AROM 3479 N PRO B 534 43.251 17.087 13.047 1.00 27.85 AROM 3481 C PRO B 534 43.251 17.087 13.047 1.00 27.85 AROM 3481 C PRO B 534 42.778 19.000 14.583 1.00 30.62 AROM 3482 O PRO B 534 43.681 18.366 13.555 1.00 32.15 AROM 3483 CB PRO B 534 43.681 18.366 13.555 1.00 30.62 AROM 3484 CG PRO B 534 42.778 19.000 14.583 1.00 30.162 AROM 3485 CD PRO B 534 42.778 19.000 15.358 1.00 30.62 AROM 3485 CD PRO B 534 42.878 17.136 11.000 12.13 AROM 3485 CD PRO B 534 42.878 17.136 11.607 1.00 29.14 AROM 3486 C VAL B 535 40.597 19.521 15.441 1.00 32.07 AROM 3488 C VAL B 535 39.468 18.630 15.932 1.00 30.10 AROM 3489 O VAL B 535 39.468 18.630 15.932 1.00 30.10 AROM 3490 CR VAL B 535 39.999 20.809 14.832 1.00 30.10 AROM 3491 CG1 VAL B 535 39.166 17.651 15.295 1.00 26.91 AROM 3493 CR TYR B 536 38.255 20.409 13.572 1.00 34.84 AROM 3493 CR TYR B 536 38.91 12.00 13.81 AROM 3493 CR TYR B 536 38.088 18.199 17.329 1.00 36.89 AROM 3493 CR TYR B 536 35.40 18.246 17.051 15.295 1.00 26.91 AROM 3493 CR TYR B 536 35.43 18.246 17.017 1.00 29.331 AROM 3493 CR TYR B 536 35.43 18.246 17.017 1.00 29.331 AROM 3493 CR TYR B 536 35.43 18.246 17.017 1.00 29.331 AROM 3493 CR TYR B 536 36.396 18.891 17.329 1.00 36.89 AROM 3493 CR TYR B 536 35.43 18.246 17.017 1.00 27.74 AROM 3493 CR TYR B 536 35.43 18.246 17.017 1.00 27.74 AROM 3493 CR TYR B 536 35.43 18.246 17.00 17.00 13.81 AROM 3493 CR TYR B 536 35.63 18.891 17.329 1.00 23.93 AROM 3493 CR TYR B 536 35.63 18.891 17.329 1.00 36.93 AROM 3590 CR ASP B 537 35.642 18.797 19.10 1.00 27.59 AROM 3500 CR SSP B 537 35.642 18.997 17.00 17.00 17.00 29.13 AROM 3500 CR SSP B 537 33.999 2								
ATOM 3474 C VAL B 533 42.933 14.676 13.079 1.00 27.02 ATOM 3475 O VAL B 533 43.700 16.066 14.956 1.00 25.06 ATOM 3476 CB VAL B 533 41.377 14.535 13.241 1.00 24.65 ATOM 3476 CB VAL B 533 41.377 14.535 13.241 1.00 24.65 ATOM 3477 CCJ VAL B 533 41.377 14.535 13.241 1.00 24.65 ATOM 3478 CGZ VAL B 533 41.377 14.535 13.241 1.00 24.65 ATOM 3478 CGZ VAL B 533 41.371 14.527 14.699 1.00 23.82 ATOM 3478 CGZ VAL B 533 41.011 14.527 14.699 1.00 23.82 ATOM 3478 CGZ VAL B 533 41.011 14.527 14.699 1.00 23.82 ATOM 3478 CGZ VAL B 534 43.681 18.366 13.555 1.00 32.15 ATOM 3480 CA PRO B 534 43.681 18.366 13.555 1.00 32.15 ATOM 3481 C PRO B 534 42.778 19.000 14.583 1.00 30.18 ATOM 3482 O PRO B 534 42.778 19.000 14.583 1.00 30.18 ATOM 3482 O PRO B 534 42.778 19.000 14.583 1.00 30.18 ATOM 3484 CG PRO B 534 42.778 18.627 11.320 1.00 29.14 ATOM 3485 CD PRO B 534 42.781 16.627 11.320 1.00 29.14 ATOM 3486 N VAL B 535 40.597 19.521 15.441 1.00 32.07 ATOM 3488 C VAL B 535 39.468 18.835 14.472 1.00 28.17 ATOM 3489 O VAL B 535 39.468 18.630 15.932 1.00 30.10 ATOM 3490 CCB VAL B 535 39.999 20.809 14.832 1.00 30.10 ATOM 3491 CGJ VAL B 535 39.999 20.809 14.832 1.00 30.484 ATOM 3491 CGJ VAL B 535 39.999 20.809 14.832 1.00 30.10 ATOM 3494 CA TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3495 C TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3496 O TYR B 536 36.376 18.981 17.329 1.00 29.91 ATOM 3498 C CTYR B 536 38.008 18.489 19.142 1.00 34.84 ATOM 3499 C D TYR B 536 38.008 18.489 19.142 1.00 34.84 ATOM 3495 C TYR B 536 38.008 18.246 17.047 1.00 27.74 ATOM 3496 C D TYR B 536 38.008 18.489 19.142 1.00 34.93 ATOM 3497 CB TYR B 536 38.008 18.489 19.142 1.00 34.93 ATOM 3498 C C TYR B 536 38.008 18.489 19.142 1.00 34.93 ATOM 3500 CCD TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3500 CCD TYR B 536 38.300 18.246 17.047 1.00 27.74 ATOM 3500 CCD TYR B 536 38.300 18.246 17.047 1.00 27.74 ATOM 3500 CCD TYR B 536 38.300 18.246 17.047 1.00 20.91 ATOM 3500 CCD TYR B 536 38.300 18.246 17.047 1.00 22.91 ATOM								
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ATOM 3476 CB VAL B 533 41.3700 16.066 14.956 1.00 29.36 ATOM 3476 CB VAL B 533 41.377 14.535 13.241 1.00 24.65 ATOM 3478 CG2 VAL B 533 41.377 14.535 13.241 1.00 24.65 ATOM 3478 CG2 VAL B 533 41.011 14.527 14.699 1.00 23.82 ATOM 3478 CG2 VAL B 533 41.011 14.527 14.699 1.00 23.82 ATOM 3478 CG2 VAL B 533 41.011 14.527 14.699 1.00 23.82 ATOM 3480 CA PRO B 534 43.251 17.087 13.047 1.00 27.85 ATOM 3481 C PRO B 534 43.251 17.087 13.047 1.00 27.85 ATOM 3481 C PRO B 534 43.251 19.000 14.583 1.00 30.18 ATOM 3482 O PRO B 534 43.262 19.800 15.358 1.00 30.18 ATOM 3482 C PRO B 534 43.653 19.283 12.316 1.00 32.15 ATOM 3483 CG PRO B 534 42.778 18.627 11.320 1.00 22.15 ATOM 3484 CG PRO B 534 42.893 17.136 11.607 1.00 22.15 ATOM 3488 C PRO B 534 42.893 17.136 11.607 1.00 22.17 ATOM 3488 C VAL B 535 39.468 18.825 14.472 1.00 22.07 ATOM 3488 C VAL B 535 39.468 18.627 11.320 1.00 23.17 ATOM 3488 C VAL B 535 39.468 18.630 15.932 1.00 30.10 ATOM 3490 CB VAL B 535 39.999 20.809 14.832 1.00 30.10 ATOM 3491 CG1 VAL B 535 39.999 20.809 14.832 1.00 30.88 ATOM 3491 CG1 VAL B 535 39.999 20.809 14.832 1.00 34.84 ATOM 3491 CG1 VAL B 535 38.831 19.062 17.061 15.295 1.00 26.98 ATOM 3493 N TYR B 536 38.831 19.062 17.001 1.00 29.84 ATOM 3495 C TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 36.376 18.981 17.329 1.00 28.84 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 28.84 ATOM 3495 C TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3496 O TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3499 CD1 TYR B 536 38.008 18.489 19.142 1.00 34.32 ATOM 3499 CD1 TYR B 536 38.008 18.489 19.142 1.00 34.32 ATOM 3500 CC2 TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3500 CC2 TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3500 CC2 TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3500 CC2 TYR B 536 38.008 18.489 19.142 1.00 34.92 ATOM 3500 CC2 TYR B 536 38.300 18.246 17.047 1.00 27.74 ATOM 3500 CC2 TYR B 536 38.300 18.246 17.047 1.00 27.74 ATOM 3500 CC2 TYR B 536 38.300 18.246 17.047 1.00 20.00								
ATOM 3477 CG1 VAL B 533								
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ATOM 3483 CB PRO B 534	ATOM	3480						
ATOM 3483 CB PRO B 534	ATOM	3481			42.778	19.000		
ATOM 3485 CD PRO B 534	ATOM	3482						
ATOM 3486 N VAL B 535	MOTA	3483				19.283	12.316	1.00 32.15
ATOM 3488 C VAL B 535	ATOM	3484	CG PRO B	534	42.778	18.627	11.320	1.00 29.14
ATOM 3488 C VAL B 535	ATOM	3485	CD PRO B	534	42.893	17.136	11.607	1.00 29.21
ATOM 3488 C VAL B 535 39.468 18.630 15.932 1.00 30.10 ATOM 3489 O VAL B 535 39.126 17.651 15.295 1.00 26.97 ATOM 3491 CG1 VAL B 535 39.126 17.651 15.295 1.00 34.84 ATOM 3491 CG2 VAL B 535 39.999 20.809 14.832 1.00 34.84 ATOM 3491 CG2 VAL B 535 39.255 20.409 13.572 1.00 31.81 ATOM 3493 N TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 37.724 18.337 17.616 1.00 28.84 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 30.00 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 34.32 ATOM 3496 O TYR B 536 36.376 18.981 17.329 1.00 34.32 ATOM 3497 CB TYR B 536 36.98 18.489 19.142 1.00 34.32 ATOM 3497 CB TYR B 536 36.98 18.489 19.142 1.00 34.32 ATOM 3499 CD TYR B 536 36.98 18.489 19.142 1.00 34.32 ATOM 3499 CD TYR B 536 36.298 16.928 20.114 1.00 37.04 ATOM 3500 CD2 TYR B 536 36.522 19.088 21.077 1.00 36.24 ATOM 3500 CD2 TYR B 536 36.522 19.088 21.077 1.00 36.24 ATOM 3500 CD2 TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3500 CD2 TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3500 CD2 TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3500 CD TYR B 536 34.948 17.524 21.970 1.00 42.22 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3500 CD ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3500 CD ASP B 537 33.646 23.015 17.986 1.00 34.07 ATOM 3510 CD ASP B 537 33.646 23.015 17.986 1.00 34.07 ATOM 3511 CD1 ASP B 537 33.646 23.015 17.986 1.00 34.07 ATOM 3512 CD2 ASP B 537 33.646 23.015 17.986 1.00 34.07 ATOM 3513 N LEU B 538 33.940 21.957 12.111 1.00 27.59 ATOM 3513 N LEU B 538 33.940 21.957 12.111 1.00 27.59 ATOM 3513 N LEU B 538 33.940 21.957 12.111 1.00 27.59 ATOM 3511 CD1 ASP B 537 33.646 23.015 17.986 1.00 22.95 ATOM 3512 CD2 ASP B 537 33.646 23.015 17.986 1.00 22.95 ATOM 3512 CD2 LEU B 538 33.940 21.957 12.131 1.00 24.06 ATOM 3512 CD2 LEU B 538 33.940 21.957 12.131 1.00 22.05 ATOM 3513 CD2 LEU B 538 33.940 21.957 12.131 1.00 22.05 ATOM 3512 CD2 LEU B 539 32.004 24.268 13.668 1.00 22.79 ATOM 35	ATOM	3486	N VAL B	535				1.00 28.17
ATOM 3490 CB VAL B 535 39.126 17.651 15.295 1.00 26.97 ATOM 3491 CG1 VAL B 535 39.999 20.809 14.832 1.00 34.84 ATOM 3491 CG1 VAL B 535 39.999 20.809 14.832 1.00 36.98 ATOM 3492 CG2 VAL B 535 39.255 20.409 13.572 1.00 31.81 ATOM 3493 N TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 37.724 18.337 17.616 1.00 28.84 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3495 C TYR B 536 35.403 18.246 17.047 1.00 27.74 ATOM 3497 CB TYR B 536 35.403 18.246 17.047 1.00 27.74 ATOM 3497 CB TYR B 536 36.918 18.489 19.142 1.00 34.32 ATOM 3498 CG TYR B 536 36.918 18.469 19.142 1.00 34.32 ATOM 3498 CG TYR B 536 36.918 18.469 19.142 1.00 37.04 ATOM 3499 CD1 TYR B 536 36.522 19.088 21.077 1.00 35.17 ATOM 3500 CD2 TYR B 536 35.5403 18.245 17.047 1.00 27.74 ATOM 3500 CC2 TYR B 536 36.522 19.088 21.077 1.00 36.24 ATOM 3500 CC2 TYR B 536 35.542 18.775 22.004 1.00 35.06 ATOM 3503 CZ TYR B 536 35.542 18.775 22.004 1.00 35.06 ATOM 3503 CZ TYR B 536 35.542 18.775 22.004 1.00 36.24 ATOM 3503 CZ TYR B 536 35.542 18.775 22.004 1.00 32.09 ATOM 3505 N ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3505 N ASP B 537 35.042 20.310 17.501 1.00 27.59 ATOM 3505 N ASP B 537 35.245 22.251 15.770 1.00 25.75 ATOM 3500 C ASP B 537 34.948 17.524 21.970 1.00 25.75 ATOM 3500 C ASP B 537 34.948 17.524 21.970 1.00 25.75 ATOM 3510 C ASP B 537 34.942 21.251 15.770 1.00 25.75 ATOM 3510 C ASP B 537 34.942 21.291 17.986 1.00 37.10 ATOM 3511 CD ASP B 537 34.943 22.260 18.124 1.00 34.07 ATOM 3511 CD ASP B 537 33.949 22.290 17.201 1.00 25.75 ATOM 3510 CD ASP B 537 34.948 17.224 21.970 1.00 21.54 ATOM 3511 CD ASP B 537 34.948 17.224 21.970 1.00 22.91 ATOM 3512 CD ASP B 537 34.948 17.224 21.970 1.00 22.91 ATOM 3512 CD LEU B 538 33.940 21.91 13.255 1.00 22.91 ATOM 3513 C LEU B 538 33.940 21.91 13.255 1.00 22.91 ATOM 3513 C LEU B 538 33.940 21.91 13.100 1.00 21.70 ATOM 3513 C LEU B 538 33.940 21.91 13.100 1.00 22.95 ATOM 3520 CD LEU B 538 33.940 21.91 13.100 1.00 22.95 ATOM 3521 C LEU B 539 32.004 24.268 13.668 10.00 22.95 ATOM 3523 C LEU B 539	ATOM	3487	CA VAL B	535	40.597	19.521	15.441	1.00 32.07
ATOM 3490 CB VAL B 535 39.999 20.809 14.832 1.00 34.84 ATOM 3491 CG1 VAL B 535 41.032 21.890 14.529 1.00 36.84 ATOM 3492 CG2 VAL B 535 39.255 20.409 13.572 1.00 31.81 ATOM 3493 N TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 37.724 18.337 17.616 1.00 28.84 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 O TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 CG TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3497 CB TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3499 CD1 TYR B 536 36.928 16.928 20.114 1.00 37.04 ATOM 3500 CD2 TYR B 536 36.522 19.088 21.077 1.00 35.16 ATOM 3501 CE1 TYR B 536 35.505 16.590 21.015 1.00 35.06 ATOM 3501 CE2 TYR B 536 35.505 16.590 21.015 1.00 35.06 ATOM 3503 CZ TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3503 CZ TYR B 536 34.948 17.524 21.970 1.00 42.22 ATOM 3503 CZ TYR B 536 34.948 17.524 21.970 1.00 42.22 ATOM 3505 N ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3505 C ASP B 537 35.044 20.990 17.261 1.00 25.75 ATOM 3500 CB ASP B 537 34.945 22.251 15.770 1.00 21.54 ATOM 3501 CG ASP B 537 34.945 22.251 15.770 1.00 21.54 ATOM 3503 CB ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3510 CG ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3510 CG ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3511 ODI ASP B 537 33.3484 21.251 15.770 1.00 21.54 ATOM 3512 OD2 ASP B 537 33.3492 19.001 13.110 1.00 21.54 ATOM 3512 OD2 ASP B 537 33.3492 19.001 13.110 1.00 21.79 ATOM 3512 OD2 ASP B 537 33.3492 19.001 13.110 1.00 21.79 ATOM 3512 OD2 ASP B 537 33.3492 19.001 13.110 1.00 24.05 ATOM 3511 OD1 ASP B 538 33.040 21.491 13.255 1.00 22.91 ATOM 3512 OD2 ASP B 537 33.9492 19.001 13.110 1.00 24.05 ATOM 3513 N LEU B 538 33.040 21.491 13.255 1.00 22.91 ATOM 3513 C LEU B 538 33.040 21.491 13.255 1.00 22.91 ATOM 3520 C LEU B 538 33.040 21.491 13.255 1.00 22.95 ATOM 3521 C LEU B 539 32.004 24.268 13.686 1.00 22.79 ATOM 3522 C A LEU B 539 32.004 24.268 13.686 1.00 22.79	ATOM		C VAL B	535	39.468	18.630		1.00 30.10
ATOM 3490 CB VAL B 535 39.999 20.809 14.832 1.00 34.84 ATOM 3491 CG1 VAL B 535 41.032 21.890 14.529 1.00 36.84 ATOM 3492 CG2 VAL B 535 39.255 20.409 13.572 1.00 31.81 ATOM 3493 N TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 37.724 18.337 17.616 1.00 28.84 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 O TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 CG TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3497 CB TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3499 CD1 TYR B 536 36.928 16.928 20.114 1.00 37.04 ATOM 3500 CD2 TYR B 536 36.522 19.088 21.077 1.00 35.16 ATOM 3501 CE1 TYR B 536 35.505 16.590 21.015 1.00 35.06 ATOM 3501 CE2 TYR B 536 35.505 16.590 21.015 1.00 35.06 ATOM 3503 CZ TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3503 CZ TYR B 536 34.948 17.524 21.970 1.00 42.22 ATOM 3503 CZ TYR B 536 34.948 17.524 21.970 1.00 42.22 ATOM 3505 N ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3505 C ASP B 537 35.044 20.990 17.261 1.00 25.75 ATOM 3500 CB ASP B 537 34.945 22.251 15.770 1.00 21.54 ATOM 3501 CG ASP B 537 34.945 22.251 15.770 1.00 21.54 ATOM 3503 CB ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3510 CG ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3510 CG ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3511 ODI ASP B 537 33.3484 21.251 15.770 1.00 21.54 ATOM 3512 OD2 ASP B 537 33.3492 19.001 13.110 1.00 21.54 ATOM 3512 OD2 ASP B 537 33.3492 19.001 13.110 1.00 21.79 ATOM 3512 OD2 ASP B 537 33.3492 19.001 13.110 1.00 21.79 ATOM 3512 OD2 ASP B 537 33.3492 19.001 13.110 1.00 24.05 ATOM 3511 OD1 ASP B 538 33.040 21.491 13.255 1.00 22.91 ATOM 3512 OD2 ASP B 537 33.9492 19.001 13.110 1.00 24.05 ATOM 3513 N LEU B 538 33.040 21.491 13.255 1.00 22.91 ATOM 3513 C LEU B 538 33.040 21.491 13.255 1.00 22.91 ATOM 3520 C LEU B 538 33.040 21.491 13.255 1.00 22.95 ATOM 3521 C LEU B 539 32.004 24.268 13.686 1.00 22.79 ATOM 3522 C A LEU B 539 32.004 24.268 13.686 1.00 22.79	ATOM	3489	O VAL B	535	39.126	17.651	15.295	1.00 26.97
ATOM 3491 CG1 VAL B 535 41.032 21.890 14.529 1.00 36.98 ATOM 3492 NO TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 37.724 18.337 17.616 1.00 22.884 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 C TYR B 536 36.918 18.469 19.142 1.00 27.74 ATOM 3499 CD TYR B 536 38.008 18.489 19.142 1.00 34.32 ATOM 3499 CD TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3499 CD TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3499 CD TYR B 536 36.529 19.088 21.077 1.00 36.24 ATOM 3500 CD TYR B 536 35.305 16.590 21.015 1.00 35.06 ATOM 3500 CD TYR B 536 35.505 16.590 21.015 1.00 35.06 ATOM 3503 CZ TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3503 CZ TYR B 536 33.966 17.244 22.897 1.00 42.22 ATOM 3503 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3505 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3508 CA ASP B 537 34.844 21.251 15.770 1.00 26.75 ATOM 3508 CA ASP B 537 34.844 21.251 15.770 1.00 26.75 ATOM 3501 CG ASP B 537 34.948 22.251 15.172 1.00 25.75 ATOM 3501 CG ASP B 537 34.945 22.251 15.172 1.00 25.75 ATOM 3510 CG ASP B 537 34.945 22.251 15.172 1.00 25.75 ATOM 3510 CG ASP B 537 33.3646 23.015 17.986 1.00 34.07 ATOM 3511 CD ASP B 537 33.3646 23.015 17.986 1.00 34.07 ATOM 3511 CD ASP B 537 33.377 23.965 18.764 1.00 24.65 ATOM 3513 N LEU B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3515 C LEU B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3515 C LEU B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3515 C LEU B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3515 C LEU B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3515 C LEU B 538 33.900 21.597 12.131 1.00 24.45 ATOM 3520 CD2 LEU B 539 31.892 22.953 13.701 1.00 22.95 ATOM 3523 C LEU B 539 31.892 22.953 13.701 1.00 22.95 ATOM 3523 C LEU B 539 32.004 24.268 13.686 1.00 22.97 ATOM 3524 C LEU B 539 32.004 24.268 13.686 1.00 22.79 ATOM 3523 C LEU B 539 32.004 24.268 13.686 1.00 22.79 ATOM 3524 C LEU B 53	ATOM		CB VAL B	535	39.999	20.809	14.832	1.00 34.84
ATOM 3493 N TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 37.724 18.337 17.616 1.00 28.84 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 O TYR B 536 35.403 18.246 17.047 1.00 27.74 ATOM 3497 CB TYR B 536 38.008 18.448 9 19.142 1.00 34.32 ATOM 3498 CG TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3499 CD1 TYR B 536 36.298 16.928 20.114 1.00 37.04 ATOM 3500 CD2 TYR B 536 36.522 19.088 21.077 1.00 36.24 ATOM 3501 CE1 TYR B 536 36.522 19.088 21.077 1.00 36.24 ATOM 3501 CE1 TYR B 536 35.305 16.590 21.015 1.00 35.07 ATOM 3502 CE2 TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3503 CZ TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3503 CZ TYR B 536 33.966 17.244 22.897 1.00 42.22 ATOM 3504 OH TYR B 536 33.966 17.244 22.897 1.00 42.22 ATOM 3505 CA ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 35.014 20.990 17.261 1.00 26.75 ATOM 3508 O ASP B 537 34.844 21.251 15.770 1.00 25.75 ATOM 3508 O ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3510 CG ASP B 537 33.2484 21.251 15.770 1.00 25.75 ATOM 3501 CG ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3510 CG ASP B 537 33.2819 22.699 17.100 1.00 27.104 ATOM 3511 OD1 ASP B 537 33.2819 22.699 17.100 1.00 21.76 ATOM 3513 N LEU B 538 33.969 20.358 13.658 1.00 37.10 ATOM 3515 C LEU B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3516 O LEU B 538 33.999 20.358 13.658 1.00 24.45 ATOM 3517 CB LEU B 538 33.990 1.3255 1.00 22.91 ATOM 3518 CG LEU B 538 33.990 1.3255 1.00 22.91 ATOM 3520 CD2 LEU B 538 33.990 1.824 13.255 1.00 22.95 ATOM 3521 N LEU B 538 33.990 1.824 13.255 1.00 22.95 ATOM 3522 CA LEU B 539 31.892 2.953 13.701 1.00 21.50 ATOM 3521 N LEU B 538 33.990 1.2726 1.00 22.95 ATOM 3522 CA LEU B 539 31.892 2.953 13.701 1.00 22.95 ATOM 3524 O LEU B 539 32.004 24.268 13.668 1.00 22.95 ATOM 3525 CB LEU B 539 32.004 24.268 13.668 1.00 22.95 ATOM 3520 CD2 LEU B 539 32.005 23.045 14.708 1.00 24.06 ATOM 3521 N LEU B 539 32.005 23.045 14.708 1.00 22.95 ATOM 3522 CA LEU B 539 32.004 24.268 13.666 1.00 22.70 ATOM 3523 CB LEU B 539 32.006 25.7	ATOM	3491	CG1 VAL B	535	41.032	21.890	14.529	1.00 36.98
ATOM 3493 N TYR B 536 38.831 19.062 17.003 1.00 30.00 ATOM 3494 CA TYR B 536 37.724 18.337 17.616 1.00 28.84 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 O TYR B 536 35.403 18.246 17.047 1.00 27.74 ATOM 3497 CB TYR B 536 38.008 18.489 19.142 1.00 34.32 ATOM 3498 CG TYR B 536 36.918 18.169 20.108 1.00 35.17 ATOM 3499 CD1 TYR B 536 36.298 16.928 20.114 1.00 37.04 ATOM 3500 CD2 TYR B 536 36.522 19.088 21.077 1.00 36.24 ATOM 3501 CE1 TYR B 536 36.522 19.088 21.077 1.00 36.24 ATOM 3501 CE1 TYR B 536 35.305 16.590 21.015 1.00 38.43 ATOM 3502 C22 TYR B 536 35.542 18.775 22.001 1.00 38.43 ATOM 3503 CZ TYR B 536 33.966 17.244 22.897 1.00 42.22 ATOM 3505 N ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3506 CA ASP B 537 36.287 20.310 17.501 1.00 25.75 ATOM 3508 O ASP B 537 35.014 20.990 17.261 1.00 25.75 ATOM 3508 O ASP B 537 34.948 22.251 15.770 1.00 25.75 ATOM 3508 O ASP B 537 34.948 22.260 18.124 1.00 34.07 ATOM 3510 CG ASP B 537 34.844 21.251 15.770 1.00 25.75 ATOM 3508 O ASP B 537 34.935 22.260 18.124 1.00 34.07 ATOM 3510 CG ASP B 537 33.248 22.251 15.770 1.00 25.75 ATOM 3510 CB ASP B 537 33.3496 20.358 13.658 1.00 37.10 ATOM 3511 OD1 ASP B 537 33.3493 22.269 17.100 1.00 31.06 ATOM 3513 N LEU B 538 33.396 20.358 13.658 1.00 19.71 ATOM 3516 O LEU B 538 33.492 19.001 13.110 1.00 24.45 ATOM 3517 CB LEU B 538 33.492 19.001 13.110 1.00 22.91 ATOM 3518 CG LEU B 538 33.492 19.001 13.110 1.00 22.91 ATOM 3519 CD1 LEU B 538 33.492 19.001 13.110 1.00 22.95 ATOM 3520 CD2 LEU B 538 33.492 19.001 13.110 1.00 22.95 ATOM 3521 N LEU B 539 31.189 22.953 13.701 1.00 22.95 ATOM 3522 CA LEU B 539 31.824 24.990 12.726 1.00 22.95 ATOM 3524 O LEU B 539 31.824 24.990 12.726 1.00 22.95 ATOM 3527 CD1 LEU B 539 32.004 24.268 13.668 1.00 22.99 ATOM 3528 CD LEU B 539 31.824 24.462 14.686 1.00 22.79 ATOM 3520 CD2 LEU B 539 32.005 23.045 14.708 1.00 22.95 ATOM 3522 CA LEU B 539 32.005 23.045 14.708 1.00 24.06 ATOM 3523 C LEU B 539 32.006 23.045 14.708 1.00 22.95 ATOM 3524 O LEU B 539 32.006 23.045 14.708 1.00 22.95 ATOM 3525 CB	ATOM	3492	CG2 VAL B	535	39.255	20.409	13.572	1.00 31.81
ATOM 3494 CA TYR B 536 37.724 18.337 17.616 1.00 28.84 ATOM 3495 C TYR B 536 36.376 18.981 17.329 1.00 29.31 ATOM 3496 O TYR B 536 35.403 18.246 17.047 1.00 27.74 ATOM 3497 CB TYR B 536 38.008 18.489 19.142 1.00 34.32 ATOM 3498 CG TYR B 536 36.988 16.928 20.114 1.00 35.17 ATOM 3499 CD1 TYR B 536 36.298 16.928 20.114 1.00 37.04 ATOM 3500 CD2 TYR B 536 36.522 19.088 21.077 1.00 36.24 ATOM 3501 CE1 TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3501 CE1 TYR B 536 35.542 18.775 22.004 1.00 38.43 ATOM 3503 CZ TYR B 536 34.948 17.524 21.970 1.00 42.22 ATOM 3504 OH TYR B 536 33.966 17.244 22.897 1.00 43.09 ATOM 3505 N ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3505 N ASP B 537 36.287 20.310 17.501 1.00 27.59 ATOM 3505 N ASP B 537 36.287 20.310 17.501 1.00 27.54 ATOM 3500 CB ASP B 537 34.844 21.251 15.770 1.00 21.54 ATOM 3500 CB ASP B 537 34.844 21.251 15.770 1.00 21.54 ATOM 3500 CB ASP B 537 34.844 21.251 15.770 1.00 21.54 ATOM 3510 CG ASP B 537 33.646 23.015 17.986 1.00 37.10 ATOM 3511 OD1 ASP B 537 33.948 22.260 18.124 1.00 34.07 ATOM 3512 OD2 ASP B 537 33.949 22.699 17.100 1.00 31.06 ATOM 3512 OD2 ASP B 537 33.949 22.699 17.100 1.00 31.06 ATOM 3512 OD2 ASP B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3513 N LEU B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3515 C LEU B 538 33.969 20.358 13.658 1.00 19.71 ATOM 3515 C LEU B 538 33.960 21.957 12.131 1.00 24.45 ATOM 3517 CB LEU B 538 33.990 20.358 13.658 1.00 19.71 ATOM 3515 C LEU B 538 33.990 13.658 12.794 1.00 22.91 ATOM 3520 CD LEU B 538 33.990 12.995 13.701 1.00 22.95 ATOM 3520 CD LEU B 539 31.823 24.990 12.726 1.00 22.95 ATOM 3525 CB LEU B 539 31.823 24.990 12.726 1.00 22.95 ATOM 3525 CB LEU B 539 32.091 21.876 14.108 1.00 22.95 ATOM 3525 CB LEU B 539 32.091 21.876 14.108 1.00 22.95 ATOM 3525 CB LEU B 539 32.004 24.228 13.668 1.00 22.95 ATOM 3525 CB LEU B 539 32.004 24.228 13.668 1.00 22.95 ATOM 3525 CB LEU B 539 32.004 24.228 13.666 1.00 22.79 ATOM 3520 CD LEU B 539 32.004 24.228 13.666 1.00 22.79 ATOM 3520 CD LEU B 539 32.004 24.228 13.666 1.00 22.79 ATOM 3520 CD			N TYR B	536	38.831	19.062	17.003	1.00 30.00
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ATOM 3534 CG LEU B 540 35.516 26.965 16.014 1.00 34.48								
- AURIM 3535 CINELENER 540 - 37 920 29 317 16 027 1 00 36 62								
ATOM 3333 CM1 DEG D 340 34.020 20.314 10.024 1.00 30.02	ATOM	3535	CDI LEU B	540	34.820	28.314	16.024	1.00 36.62

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3536 3537 3538 3539 3541 3542 3543 3544 3545 3546 3546 3549	CA GLU C GLU CB GLU CG GLU OE1 GLU OE2 GLU N ME1 CA ME1 C ME1	В 541 В 541	36.39 35.26 36.11 35.35 35.35 36.66 37.58 38.82 39.32 39.32 39.36 34.10 33.34 33.14	24.554 24.377 3 24.677 7 25.264 22.755 2 23.628 3 24.080 4 23.882 24.215 1 24.215 1 24.549 4 26.628	17.238 13.163 12.007 10.716 9.780 11.942 10.739 10.726 11.773 9.619 10.582 9.369 9.333 8.239	1.00 33.58 1.00 25.90 1.00 28.83 1.00 26.71 1.00 27.58 1.00 31.67 1.00 37.81 1.00 42.72 1.00 41.96 1.00 49.77 1.00 21.11 1.00 21.46 1.00 22.23 1.00 25.20	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	35555555555555555555555555555555555555	SD MET CE MET N LEU CA LEU C LEU C LEU CB LEU CGL LEU CD1 LEU CD2 LEU CD2 LEU N ASN C ASN C ASN O ASN	B 542 B 542 B 5 543 B 5 544 B 5 544 B 5 544 B 5 544	32.003 31.14 30.133 29.036 32.658 33.648 33.62 31.756 30.29 29.42 34.736 36.006 36.43 36.97	23.993 25.489 25.202 4 26.637 4 28.096 8 28.931 5 29.919 5 28.506 5 28.017 28.264 28.759 4 28.558 8 29.221 7 30.193	9.390 8.154 8.182 9.538 10.427 10.400 10.186 9.434 11.736 11.868 13.307 10.811 10.626 9.162 8.636	1.00 21.82 1.00 27.74 1.00 24.48 1.00 23.74 1.00 32.47 1.00 32.47 1.00 39.36 1.00 28.21 1.00 27.82 1.00 30.68 1.00 30.79 1.00 39.63 1.00 41.53 1.00 42.20 1.00 36.92	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3566 3567 35689 35771 35772 35774 35776 35777 35778 35778	CG ASM OD1 ASM ND2 ASM N ALA CA ALA C ALA O ALA CB ALA N HIS CA HIS C HIS C HIS C HIS C HIS C HIS C HIS	544554554554554554554554666554665546665546665546665546665546666554666655466665546666554666666	37.10: 37.11: 37.75: 36.49: 36.25: 36.66: 35.73: 36.81: 34.43: 33.48: 33.20: 33.39: 32.26: 32.54:	2 28.924 7 28.217 3 29.972 5 28.101 6 2 28.432 3 28.906 9 26.376 1 28.411 0 28.821 3 30.297 4 30.906 8 27.883 7 26.471	11.477 12.951 13.756 13.428 8.473 7.108 6.039 4.998 6.841 6.293 5.244 5.338 6.385 5.289 4.852	1.00 39.12 1.00 37.46 1.00 29.53 1.00 40.06 1.00 39.33 1.00 39.87 1.00 40.21 1.00 33.40 1.00 36.60 1.00 38.90 1.00 39.14 1.00 43.73 1.00 37.08 1.00 36.68	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3583 3583 35884 35886 35889 35993 35993 35993 35993 3595	C VAI O VAI CB VAI CG1 VAI CG2 VAI N LET CA LET C LET	B 546 B 546 B 547 B 547 B 547 B 547 B 547 B 547 B 547	32.18 33.18 32.56 33.16 32.78 31.34 30.74 33.72 33.61 33.49 30.82 29.41 30.41	5 25.442 24.716 5 24.361 3 30.981 0 32.419 9 32.788 32.127 6 33.076 6 32.427 5 34.575 7 33.854 9 34.918 7 35.117	4.181 3.798 2.957 3.154 1.780 3.040 4.375 4.090 2.660 1.969	1.00 36.35 1.00 40.79 1.00 35.39 1.00 42.53 1.00 40.61 1.00 39.74 1.00 46.40 1.00 42.18 1.00 41.34 1.00 43.99 1.00 43.63 1.00 43.63 1.00 47.22	_
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3596 3597 3598 3599 36001 36002 36005 3606 3606 3607 3610 3611 3612	CG LECCOTO LEC	J B 548 A B 549 A B 549 A B 549 A B 549 A B 5601 A C C 601 I C C 601 I C C 601 I C C 601	29.04 28.69 28.36 27.52 28.18 27.75 26.39 32.49 32.09 30.79 29.97 30.40 31.68 30.43 29.13	6 34.945 1 36.107 2 33.977 4 35.165 3 7.172 4 37.897 7 35.104 0 11.892 1 10.767 1 10.807 4 11.941 7 13.016 9 701	5.094 6.515 7.435 6.529 0.929 1.766 0.615 39.227 39.973 40.273 39.518 41.275 41.824	1.00 42.47 1.00 42.36 1.00 39.25 1.00 37.00 1.00 53.29 1.00 57.20 1.00 58.59 1.00 60.47 1.00 23.90 1.00 23.88 1.00 21.97 1.00 20.22 1.00 22.71 1.00 24.29 1.00 23.58 1.00 20.60	

	2.64.2		22 221	10 007	11 674	1 00 10 73	
ATOM	3613 3614	C11 GEN C 601 C12 GEN C 601	28.291 28.643	10.807 12.006	41.674 40.859	1.00 18.73 1.00 18.14	
MOTA MOTA	3615	C14 GEN C 601	26.934	10.633	42.366	1.00 23.96	
ATOM	3616	C15 GEN C 601	26.998	10.018	43.636	1.00 19.90	
MOTA	3617	C16 GEN C 601	25.776	9.792	44.345	1.00 20.07	
ATOM	3618	C17 GEN C 601	24.614	10.226	43.655	1.00 20.86	
ATOM	3619	C18 GEN C 601	24.573	10.850	42.417	1.00 18.28	
ATOM	3620	C19 GEN C 601	25.767 23.370	11.099 10.045	41.719 44.278	1.00 16.50 1.00 19.59	
MOTA MOTA	3621 3622	024 GEN C 601 025 GEN C 601	29.585	14.156	39.335	1.00 19.39	
MOTA	3623	026 GEN C 601	33.774	11.844	38.689	1.00 20.60	
ATOM	3624	027 GEN C 601	27.876	12.939	40.682	1.00 19.82	
MOTA	3625	C1 GEN D 601	34.731	10.000	15.313	1.00 20.77	
MOTA	3626	C2 GEN D 601	34.440	11.148	14.517	1.00 20.53	
ATOM ATOM	3627 3628	C3 GEN D 601 C4 GEN D 601	33.256 32.411	11.061 9.951	13.736 13.824	1.00 22.18 1.00 17.57	
ATOM	3629	C5 GEN D 601			14.669	1.00 20.54	
ATOM	3630	C6 GEN D 601	33.914	8.810 8.885 12 148	15.399	1.00 18.54	
ATOM	3631	09 GEN D 601	J2.J04	14.110	12.954	1.00 21.72	
MOTA	3632	C10 GEN D 601	31.785	12.156	12.179	1.00 21.94	
MOTA MOTA	3633 3634	C11 GEN D 601 C12 GEN D 601	30.924 31.189	11.060 9.872	12.149 13.066	1.00 18.11 1.00 21.61	
ATOM	3635	C14 GEN D 601	29.691	11.207	11.272	1.00 17.89	
ATOM	3636	C15 GEN D 601	29.976	11.887	10.015	1.00 17.97	
ATOM	3637	C16 GEN D 601	28.831	12.058	9.180	1.00 19.03	
ATOM	3638	C17 GEN D 601	27.595	11.594	9.607	1.00 19.16	
MOTA ATOM	3639 3640	C18 GEN D 601 C19 GEN D 601	27.347 28.475	10.930 10.743	10.842 11.680	1.00 18.76 1.00 18.44	
ATOM	3641	024 GEN D 601	26.486	11.807	8.806	1.00 19.69	
ATOM	3642	025 GEN D 601	31.896	7.770	14.659	1.00 23.07	
ATOM	3643	026 GEN D 601	35.877	10.078	16.050	1.00 21.64	
MOTA	3644	027 GEN D 601	30.419	8.942	13.063	1.00 21.28	
ATOM ATOM	3645 3646	OWO WAT W 1 OWO WAT W 2	20.594 14.063	8.842 18.381	43.843 7.933	1.00 18.37 1.00 21.34	
ATOM	3647	OWO WAT W 3	34.441	20.788	9.936	1.00 22.98	
ATOM	3648	OWO WAT W 4	23.692	13.028	8.639	1.00 21.23	
ATOM	3649	OWO WAT W 5	19.222	22.147	42.611	1.00 23.71	
ATOM	3650	OWO WAT W 6	11.448	4.004 15.680	40.415 5.742	1.00 23.15 1.00 23.89	
ATOM ATOM	3651 3652	OWO WAT W 7 OWO WAT W 8	23.203 21.871	14.905	9.573	1.00 23.83	
ATOM	3653	OWO WAT W 9	27.959	17.792	18.999	1.00 27.12	
ATOM	3654	OWO WAT W 10	11.009	3.171	42.889	1.00 23.32	
MOTA	3655	OWO WAT W 11	14.021	17.668	10.521	1.00 23.54	
ATOM ATOM	3656 3657	OWO WAT W 12 OWO WAT W 13	19.633 21.902	6.095 17.659	46.714 9.044	1.00 24.75 1.00 27.81	
ATOM	3658	OWO WAT W 13	18.986	6.850	42.583	1.00 19.48	
ATOM	3659	OWO WAT W 15	25.651	16.524	19.584	1.00 20.56	
ATOM	3660	OWO WAT W 16	22.299	-0.256	9.519	1.00 29.51	
ATOM	3661	OWO WAT W 17	15.024	10.870	25.417	1.00 27.29	
MOTA MOTA	3662 3663	OWO WAT W 18 OWO WAT W 19	23.250 26.908	18.239 4.204	6.810 34.548	1.00 25.22 1.00 24.63	
ATOM	3664	OWO WAT W 20	18.354	28.175	4.814	1.00 33.17	
MOTA	3665	OWO WAT W 21	19.790	3.374	45.626	1.00 24.25	
ATOM	3666	OWO WAT W 22	18.007	22.841	3.919	1.00 27.68	
MOTA	3667 3668	OWO WAT W 23 OWO WAT W 24	46.993 24.507	5.908 5.376	9.668 33.461	1.00 26.51 1.00 21.53	
MOTA MOTA	3669	OWO WAT W 25	19.262	17.958	8.795	1.00 25.20	
ATOM	3670	OWO WAT W 26	35.957	18.589	9.557	1.00 27.11	
ATOM	3671	OWO WAT W 27	19.056	4.126	43.078	1.00 24.17	
ATOM	3672	OWO WAT W 28	13.848	30.071	10.671 47.634	1.00 30.60 1.00 29.57	
MOTA MOTA	3673 3674	OWO WAT W 29 OWO WAT W 30	14.277	-1.107 10.175	20.241	1.00 23.69	
MOTA	3675	OWO WAT W 31	31.050	8.239	29.186	1.00 30.83	
MOTA	3676	OWO WAT W 32	18.563	23.370	40.373	1.00 27.01	
ATOM	3677	OWO WAT W 33	20.290	21.874	20.963	1.00 33.27 1.00 35.57	
MOTA MOTA	3678 3679	OWO WAT W 34 OWO WAT W 35	17.478 50.053	6.072 12.647	28.714 12.109	1.00 35.57	
ATOM	3680	OWO WAT W 35	20.619	1.437	21.138	1.00 30.60	
MOTA	3681	OWO WAT W 37	21.302	-4.994	47.887	1.00 29.39	
MOTA	3682	OWO WAT W 38	28.170	9.720	-1.849	1.00 32.07	
ATOM	3683	OWO WAT W 39	31.362	1.220 22.103	44.700 3.866	1.00 29.94 1.00 28.15	
MOTA MOTA	3684 3685	OWO WAT W 40 OWO WAT W 41	20.546 46.350	22.103	9.952	1.00 30.93	
ATOM	3686	OWO WAT W 41	15.588	16.297	49.060	1.00 32.92	
MOTA	3687	OWO WAT W 43	39.739	17.212	12.409	1.00 28.98	
ATOM	3688	OWO WAT W 44	18.564 11.265	13.342 -8.394	22.347 40.040	1.00 27.99 1.00 33.13	
MOTA	3689	OWO WAT W 45	11.205	-0.334	±0.040	1.00 00.10	

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MOTA	3690	OWO WAT W 46		12.261	42.568	1.00 28.66	0
MOTA	3691	OWO WAT W 47		13.280	25.163	1.00 28.87 1.00 31.71	0
ATOM ATOM	3692 3693	OWO WAT W 48	0.658 38.712	11.369 22.250	28.091 18.051	1.00 31.71	0
ATOM	3694	OWO WAT W 50		4.572	40.510	1.00 41.82	ő
ATOM	3695	OWO WAT W 51	38.532	18.730	10.324	1.00 34.38	Ō
MOTA	3696	OWO WAT W 52	-1.359	10.932	29.947	1.00 31.87	0
MOTA	3697	OWO WAT W 53	19.994	5.430	2.327	1.00 35.83	0
MOTA	3698 3699	OWO WAT W 54		11.840 19.354	19.513 37.985	1.00 40.45 1.00 32.85	0
ATOM ATOM	3700	OWO WAT W 56		3.464	45.164	1.00 32.83	0
MOTA	3701	OWO WAT W 57		8.351	29.482	1.00 29.81	Ö
MOTA	3702	OWO WAT W 58	23.833	12.539	2.117	1.00 29.50	0
MOTA	3703	OWO WAT W 59		4.680	42.871	1.00 32.99	0
MOTA	3704	OWO WAT W 60		18.788	46.438	1.00 34.68	0
MOTA	3705 3706	OWO WAT W 61		2.950 2.999	16.128 -0.169	1.00 34.00 1.00 32.57	0
ATOM ATOM	3707	OWO WAT W 63		3.167	23.449	1.00 32.37	0
MOTA	3708	OWO WAT W 64		15.414	44.002	1.00 36.81	ŏ
MOTA	3709	OWO WAT W 65		9.333	50.357	1.00 37.68	0
MOTA	3710	OWO WAT W 66		9.697	48.584	1.00 32.45	0
ATOM	3711	OWO WAT W 67		14.698	7.174 20.885	1.00 33.83 1.00 33.83	0
ATOM ATOM	3712 3713	OWO WAT W 68		19.529 -0.400	48.082	1.00 33.63	0
ATOM	3714	OWO WAT W 70		21.666	15.297	1.00 25.54	ő
ATOM	3715	OWO WAT W 71		26.127	8.045	1.00 33.92	Ō
ATOM	3716	OWO WAT W 72		16.411	46.827	1.00 35.61	0
ATOM	3717	OWO WAT W 73		16.049	9.730	1.00 44.75	0
ATOM	3718	OWO WAT W 74		2.799	23.103	1.00 35.80	0
ATOM	3719 3720	OWO WAT W 75		9.180 28.031	6.926 45.111	1.00 28.66 1.00 37.68	0
ATOM ATOM	3721	OWO WAT W 77		20.278	31.073	1.00 37.00	ŏ
ATOM	3722	OWO WAT W 78		2.397	32.790	1.00 33.02	Ö
ATOM	3723	OWO WAT W 79		20.534	10.657	1.00 33.99	0
ATOM	3724	OWO WAT W 80		6.274	12.553	1.00 34.23	0
ATOM	3725	OWO WAT W 81		16.556	21.213 29.262	1.00 35.55 1.00 29.41	0
ATOM ATOM	3726 3727	OWO WAT W 82		19.909 ~15.296	31.401	1.00 29.41	0
ATOM	3728	OWO WAT W 84		-1.704	11.851	1.00 29.83	ŏ
ATOM	3729	OWO WAT W 85		11.942	53.219	1.00 42.18	0
MOTA	3730	OWO WAT W 86		3.962	30.860	1.00 41.23	0
ATOM	3731	OWO WAT W 87		21.819	0.247	1.00 77.26	0
ATOM	3732 3733	88 W TAW 0WO		25.865 7.157	40.473 30.384	1.00 31.60 1.00 39.19	0
ATOM ATOM	3734	OWO WAT W 90		10.366	18.355	1.00 26.42	ő
ATOM	3735	OWO WAT W 91		3.694	42.911	1.00 25.64	Ō
ATOM	3736	OWO WAT W 92	18.833	4.410	30.465	1.00 31.34	0
ATOM	3737	OWO WAT W 93		17.068	-2.056	1.00 29.02	0
ATOM	3738	OWO WAT W 94		23.651 -4.668	24.369 52.419	1.00 34.47 1.00 46.78	0
ATOM ATOM	3739 3740	99 W TAW 0WO OWO OWO		18.916	27.939	1.00 44.56	0
MOTA	3741	OWO WAT W 9		0.786	34.779	1.00 37.00	ō
ATOM	3742	OWO WAT W 98		-4.010	11.910	1.00 39.16	0
ATOM	3743	OWO WAT W 99		15.557	-3.230	1.00 43.89	0
MOTA	3744	OW0 WAT W 100		15.082	22.406	1.00 38.38	0
ATOM	3745	OWO WAT W 103		6.935 10.877	23.167 11.122	1.00 31.70 1.00 39.32	0
MOTA MOTA	3746 3747	OWO WAT W 103		10.123	46.483	1.00 40.48	0
ATOM	3748	OWO WAT W 104		5.068	4.962	1.00 38.55	ō
MOTA	3749	OWO WAT W 10	8.813	-9.674	40.078	1.00 53.32	0
ATOM	3750	OWO WAT W 100		16.487	21.063	1.00 40.23	0
MOTA	3751 3752	OWO WAT W 10' OWO WAT W 108		3.446 -6.169	44.927 8.662	1.00 39.85 1.00 41.30	0
MOTA MOTA	3753	OWO WAT W 103		31.547	10.265	1.00 41.49	0
MOTA	3754	OWO WAT W 10		-1.879	26.658	1.00 36.77	ŏ
MOTA	3755	OW0 WAT W 11:	46.762	18.021	19.152	1.00 46.85	0
MOTA	3756	OWO WAT W 11:		5.319	2.222	1.00 52.48	0
MOTA	3757	OWO WAT W 11		20.702	2.758	1.00 45.48	0
MOTA	3758 3759	OWO WAT W 114		-0.262 22.976	19.801 7.030	1.00 39.23 1.00 49.73	0
MOTA MOTA	3759	OWO WAT W 11:		-4.926	4.527	1.00 38.24	0
ATOM	3761	OW0 WAT W 11'	4.372	25.938	10.233	1.00 39.24	0
ATOM	3762	OWO WAT W 118	52.348	17.172	17.310	1.00 34.24	0
MOTA	3763	OWO WAT W 11:		21.290	54.111	1.00 49.71	0
MOTA MOTA	3764 3765	OWO WAT W 120		14.639 20.591	24.790 9.258	1.00 40.57 1.00 42.56	0
ATOM	3765	OWO WAT W 12			27.555	1.00 44.52	ő
	2.00						

MOTA	3767	OWO WAT W 123	39.795	-0.317	2.652	1.00 44.68	
ATOM	3768	OW0 WAT W 124	5.610	2.009 32.075	11.401 12.842	1.00 38.29 1.00 64.16	
ATOM ATOM	3769 3770	OW0 WAT W 125 OW0 WAT W 126	7.529 17.920	15.784	23.067	1.00 43.06	
MOTA	3771	OW0 WAT W 127	14.136	21.143	25.527	1.00 38.04 1.00 51.81	
MOTA ATOM	3772 3773	OW0 WAT W 128 OW0 WAT W 129	38.574 -4.788	15.873 1.197	54.803 37.196	1.00 31.81	
ATOM	3774	OW0 WAT W 130	17.081	7.172	44.652	1.00 38.01	
MOTA MOTA	3775 3776	OW0 WAT W 131 OW0 WAT W 132		6.784 -12.936	30.899 48.056	1.00 44.15 1.00 35.90	
ATOM	3777	OWO WAT W 133	19.871	11.775	5.475	1.00 40.56	
MOTA MOTA	3778 3779	OWO WAT W 134 OWO WAT W 135	36.006 22.954	3.305 -4.481	21.918 0.798	1.00 48.65 1.00 50.80	
ATOM	3780	OW0 WAT W 136	13.207	-6.171	24.730	1.00 43.42	
ATOM	3781 3782	OW0 WAT W 137 OW0 WAT W 138	-3.317 25.629	0.489 12.264	12.332 4.200	1.00 48.64 1.00 38.19	
MOTA MOTA	3783	OW0 WAT W 139	23.573	25.238	35.587	1.00 42.16	
ATOM	378 4 3785	OW0 WAT W 140 OW0 WAT W 141	40.447 2.625	10.129 11.927	3.302 45.379	1.00 34.56 1.00 44.63	
MOTA MOTA	3786	OW0 WAT W 142	25.620	18.252	-1.548	1.00 45.28	
ATOM	3787	OWO WAT W 143	4.689 -4.941	19.820 21.975	29.824 25.303	1.00 39.35 1.00 58.01	
ATOM ATOM	3788 3789	OWO WAT W 144 OWO WAT W 145	-0.643	4.350	26.309	1.00 54.33	
ATOM	3790	OWO WAT W 146	38.573 18.132	1.533 24.827	1.090 32.593	1.00 44.32 1.00 37.08	
ATOM ATOM	3791 3792	OWO WAT W 147 OWO WAT W 148	20.278	25.946	36.703	1.00 44.49	
ATOM	3793	OWO WAT W 149	-0.072	10.577	25.625	1.00 36.84 1.00 53.67	
ATOM ATOM	3794 3795	OWO WAT W 150 OWO WAT W 151	16.704 25.510	-5.369 -2.764	13.610 29.701	1.00 34.82	
MOTA	3796	OWO WAT W 152	4.332	-5.544	25.984 18.492	1.00 65.27 1.00 42.39	
ATOM ATOM	3797 3798	OWO WAT W 153 OWO WAT W 154	40.847 16.209	21.215 9.997	46.118	1.00 42.39	
MOTA	3799	OWO WAT W 155	18.045	2.761	4.686	1.00 42.06	
ATOM ATOM	3800 3801	OWO WAT W 156 OWO WAT W 157	0.620	6.085 22.763	29.934 17.036	1.00 43.67 1.00 43.19	
ATOM	3802	OWO WAT W 158	22.171	14.826	3.381	1.00 39.74	
ATOM ATOM	3803 3804	OWO WAT W 159 OWO WAT W 160	26.060 45.733	19.294 17.018	54.077 16.481	1.00 46.68 1.00 30.83	
ATOM	3805	OWO WAT W 161	37.760	10.259	30.385	1.00 41.55	
MOTA MOTA	3806 3807	OWO WAT W 162 OWO WAT W 163	34.451 26.582	22.116 17.904	34.910 23.043	1.00 41.24 1.00 40.64	
ATOM	3808	OW0 WAT W 164	42.978	12.211	9.438	1.00 40.50	
ATOM	3809 3810	OWO WAT W 165	34.042 47.826	19.067 18.320	54.737 16.788	1.00 55.40 1.00 36.84	
MOTA ATOM	3811	OWO WAT W 166 OWO WAT W 167	2.635	1.607	19.768	1.00 40.36	
MOTA	3812 3813	OW0 WAT W 168 OW0 WAT W 169	42.706 29.444	15.702 -5.469	51.168 19.727	1.00 53.73 1.00 44.18	
ATOM ATOM	3814	OWO WAT W 170	0.938	0.074	33.827	1.00 39.33	
ATOM	3815 3816	OWO WAT W 171 OWO WAT W 172	1.355 35.733	15.318 22.337	36.571 38.623	1.00 41.72 1.00 48.99	
ATOM ATOM	3817	OWO WAT W 173	22.025	-16.840	54.098	1.00 60.26	
MOTA	3818	OWO WAT W 174 OWO WAT W 175	8.180 15.073	19.230 10.349	41.714	1.00 50.71 1.00 41.40	
MOTA ATOM	3819 3820	OWO WAT W 176	18.275	26.866	47.583	1.00 43.95	
ATOM	3821	OWO WAT W 177 OWO WAT W 178	26.149 36.628	22.604 10.191	52.505 1.537	1.00 52.87 1.00 43.41	
MOTA MOTA	3822 3823	OWO WAT W 178	-0.744	-7.200	35.515	1.00 58.15	
ATOM	3824	OWO WAT W 180	10.690 27.869	11.744 -15.330	47.602 51.231	1.00 50.01 1.00 40.75	
MOTA ATOM	3825 3826	OWO WAT W 181 OWO WAT W 182	27.409	16.705	57.119	1.00 47.06	
ATOM	3827	OWO WAT W 183	33.387 31.235	15.056 21.301	31.663 19.350	1.00 36.85 1.00 46.04	
MOTA MOTA	3828 3829	OWO WAT W 184 OWO WAT W 185	15.569	30.920	6.508	1.00 56.60	
MOTA	3830	OWO WAT W 186	44.227 -4.537	10.255 19.107	22.435 8.733	1.00 38.96 1.00 53.62	
ATOM ATOM	3831 3832	OW0 WAT W 187 OW0 WAT W 188	34.122	2.662	52.345	1.00 65.45	
ATOM	3833	OW0 WAT W 189	28.450	19.016	27.150	1.00 54.11	
END							